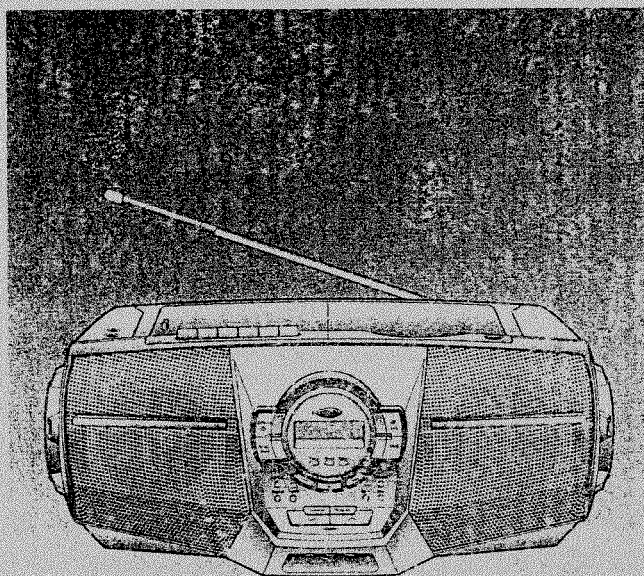


SERV. 31831

**SAMSUNG**

**RADIO CASSETTE RECORDER  
CD PLAYER  
RCD-M50/M55/M50B/M55G**

# ***SERVICE* Manual**



- 1. Alignment and Adjustments**
- 2. Disassembly and Reassembly**
- 3. Exploded Views and Parts List**
- 4. Electrical Parts List**
- 5. Block Diagrams**
- 6. PCB Diagrams**
- 7. Wiring Diagram**
- 8. Schematic Diagrams**

## 1. Precautions

Follow these safety, servicing and ESD precautions to prevent damage and protect against potential hazards such as electrical shock and X-rays.

### 1-1 Safety Precautions

1. Be sure that all of the built-in protective devices are replaced.
2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including control knobs and compartment covers.
3. Make sure that there are no cabinet openings through which people--particularly children--might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.
4. Design Alteration Warning:  
Never alter or add to the mechanical or electrical design of the unit. Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.
5. Leakage Current Hot Check (Figure 1-1):  
Warning: Do not use an isolation transformer during this test. Use a leakage-current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, *Leakage Current for Appliances*), and Underwriters Laboratories (UL Publication UL1410, 59.7).

With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, etc.) and all exposed metal parts. Examples: Handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat.

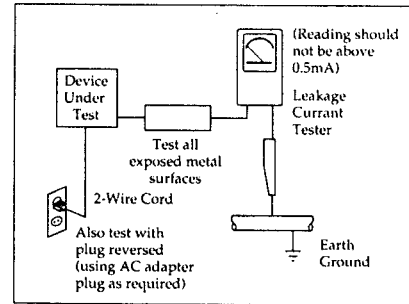


Fig. 1-1 AC Leakage Test

6. Insulation Resistance Cold Check:  
(1) With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. (2) Set the power switch to ON. (3) Measure the resistance between the shorted AC plug and any exposed metallic parts. Example: Screwheads, antenna, control shafts or handle brackets.

If any of the exposed metallic parts has a return path to the chassis, the measured resistance should be between 1 and 5.2 megohms. If there is no return path, the measured resistance should be "infinite." If the resistance is outside these limits, a shock hazard might exist. See Figure 1-2

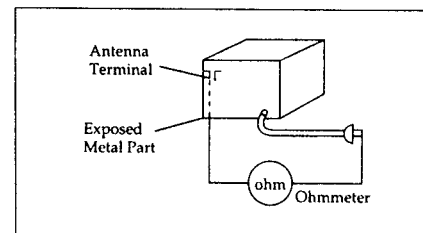


Fig. 1-2 Insulation Resistance Test

### Precautions

#### 1-1 Safety Precautions (Continued)

7. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards
8. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that no wires or components touch thermally hot parts.
9. Product Safety Notice:  
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original--even if the replacement is rated for higher voltage, wattage, etc.
10. Components that are critical for safety are indicated in the circuit diagram by shading,  $\Delta$  or  $\nabla$ . Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

### 1-2 Servicing Precautions

Warning1: First read the "Safety Precautions" section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.

1. Servicing precautions are printed on the cabinet. Follow them.
2. Always unplug the unit's AC power cord from the AC power source before attempting to: (a) Remove or reinstall any component or assembly, (b) Disconnect an electrical plug or connector, (c) Connect a test component in parallel with an electrolytic capacitor.
3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring may be clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.
5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.  
  
The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
8. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

### 1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

1. Some semiconductor ("solid state") devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs). Examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.
2. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power--this is an electric shock precaution.)
3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.
4. Do not use freon-propelled chemicals. These can generate electrical charges that damage ESDs.
5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.
6. Use only an anti-static solder removal device. Many solder removal devices are not rated as "anti-static" (these can accumulate sufficient electrical charge to damage ESDs).
7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
9. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.

### 1-4 Special Precautions and Warning Labels for Laser Products

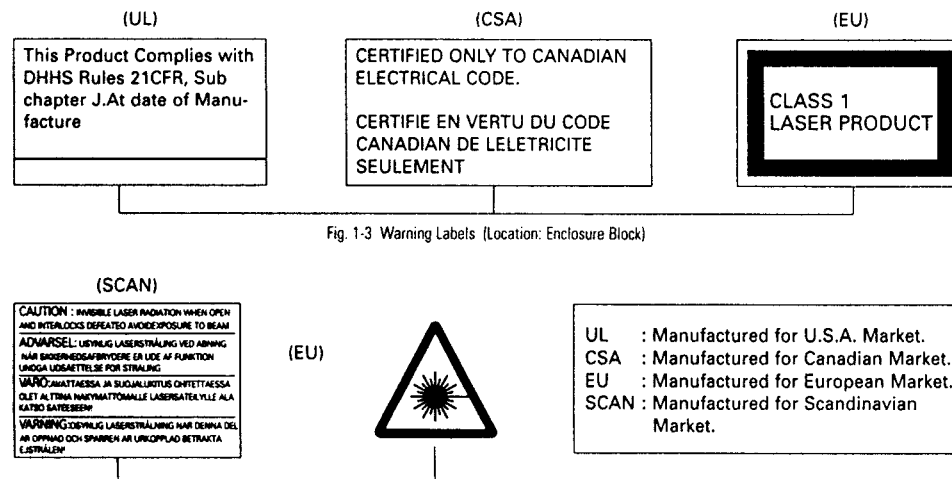


Fig. 1-4 Warning Labels (Location: Disc Clamper, Inner Side of Unit Door or Nearby Unit Chassis)

### 1-4 Special Precautions and Warning Labels for Laser Products (Continued)

#### 1-4-1 Warnings

1. When servicing, do not approach the LASER exit with the eye too closely. In case it is necessary to confirm LASER beam emission, be sure to observe from a distance of more than 30 cm from the surface of the objective lens on the optical pick-up block.
2. Do not attempt to handle the objective lens when the DISC is not on the tray.

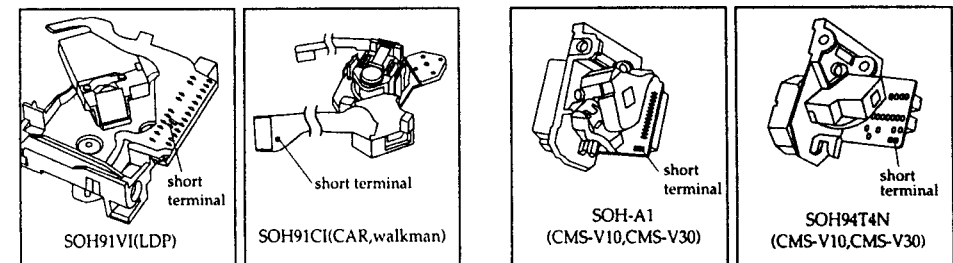
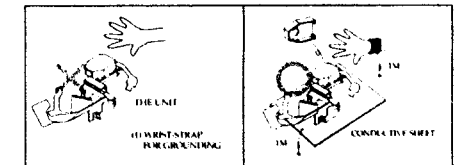
#### 1-4-2 Laser Diode Specifications

Material: GaAs+ GaAlAs  
Wavelength: 760-800 nm  
Emission Duration: Continuous

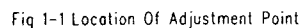
Laser Output: 0.2 mw (measured at a 1.6 mm distance from the objective lens surface on the optical pick-up block.)

#### 1-4-3 Handling the Optical Pick-up

1. Static electricity from clothing or the body may cause electrostatic breakdown of the laser diode in the Optical Pickup. Follow this procedure:
2. Place a conductive sheet on the work bench (i.e., the black sheet used for wrapping repair parts.) Note: The surface of the work bench should be covered by a copper ground plane, which is grounded.
3. The repair technician must wear a wrist strap which is grounded to the copper sheet.
4. To remove the Optical Pickup block: Place the set on the conductive sheet, and momentarily touch the conductive sheet with both hands. (While working, do not allow any electrostatic sources--such as clothes--to touch the unit.)
5. Ground the "Short Terminal" (located on the PCB, inside the Pickup Assembly) before replacing the Pickup. This terminal should be shorted whenever the Pickup Assembly is lifted or moved.
6. After replacing the Pickup, reopen the Short Terminal. See diagrams below:



## 1-1 Instruction



- FM IF OUTPUT : PIN NO . 19 of IC 302(TA8132AN) - Freference next page (FIG 1-4)

IF GENERATOR

TUNER PART

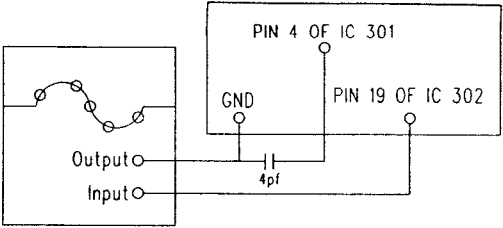


Fig 1-4

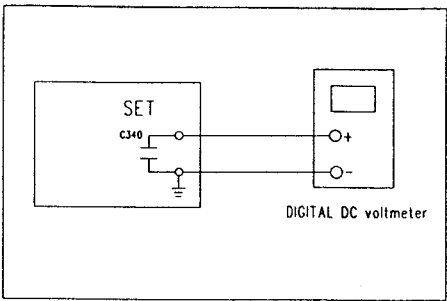


Fig 1-5

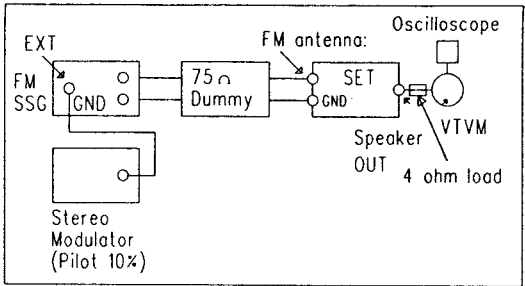


Fig 1-6

1-2-2 AM Adjustment(2BAND)

Step	Item	Connection	SSG.FREQ.	FREQ. Setting	Adjust. Point	Remark
1	Intermediate frequency (IF) adjustment	Fig 1-7	450 KHz	Tune to the lowest	AM IFT : T303	Maximum output
2	AM frequency coverage adjustment	Fig 1-5	522 KHz	Tune to the lowest	Check	0.8V
3			1622 KHz	Tune to the highest	OSC COIL : T304	7.0 V
4	AM tracking adjustment	Fig 1-8	594 KHz	594 KHz	AM ANT COIL	Maximum output
5			1404 KHz	1404 KHz	TRIMMER : TC302	Maximum output

AM IF OUTPUT : PIN NO. 6 of IC302(TA8132AN)

IF GENERATOR

TUNER PART

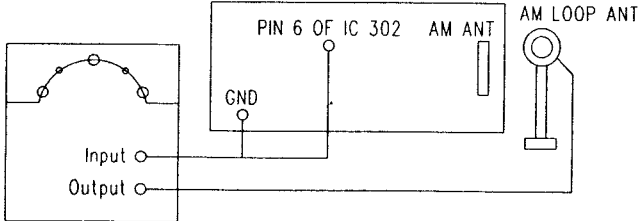


Fig 1-7

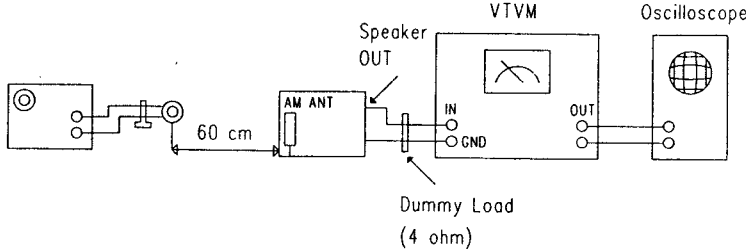


Fig 1-8

### 1-3. Deck Section

#### 1-3-1. Recording BIAS adjustment

- 1) Connect frequency counter C701 (See Fig.1-9) and press the Record button.
- 2) Adjust T701 (BIAS OSC COIL) until frequency counter reads 80KHz

#### 1-3-2. Tape AZIMUTH adjustment

- 1) Connect the equipments as per Fig.1-10 to adjust the tape azimuth with test tape (recorded at 6.3KHz : MTT-113N)
- 2) Play the test tape after inserting in DECK.
- 3) Adjust the azimuth adjustment screw of left side of record/play head for maximum output and for the same channel phase.(see Fig.1-10)

#### 1-3-3. Tape speed adjustment

- 1) Connect the equipments as shown in Fig.1-11 adjust the tape speed with test tape (recorded at 3KHz : MTT-111N)

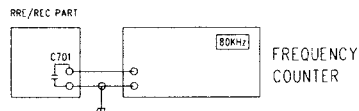


Fig.1-9 Recording bias adjustment

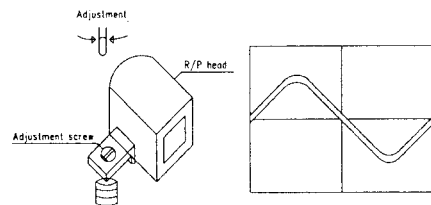


Fig.1-10 Azimuth speed adjustment

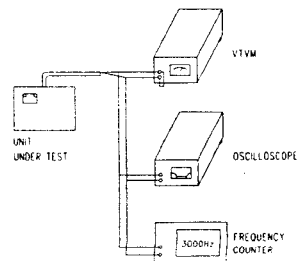
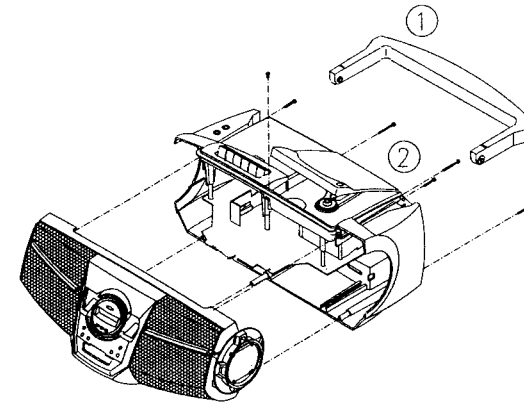


Fig.1-11

## 2. Disassembly and Reassembly

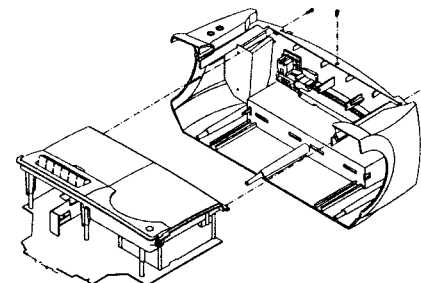
### 2-1.FRONT CABINET

1. REMOVE ① OF ITS HANDLE
2. REMOVE 6 SCREWS OF ② OF ITS REAR PART
3. REMOVE FRONT CABINET TO FRONTWARD



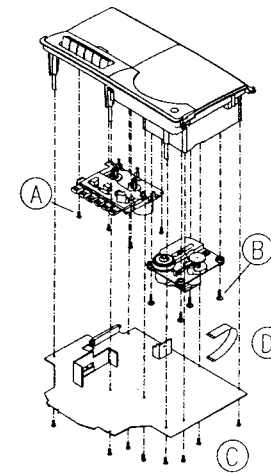
### 2-2.TOP-CABINET ASS'Y

1. REMOVE 3 SCREWS OF ITS REAR PART
2. REMOVE TOP CABINET ASS'Y TO FRONTWARD



### 2-3.MAIN-PCB ASS'Y & CD-MECHA ASS'Y AND CASS-MECHA ASS'Y

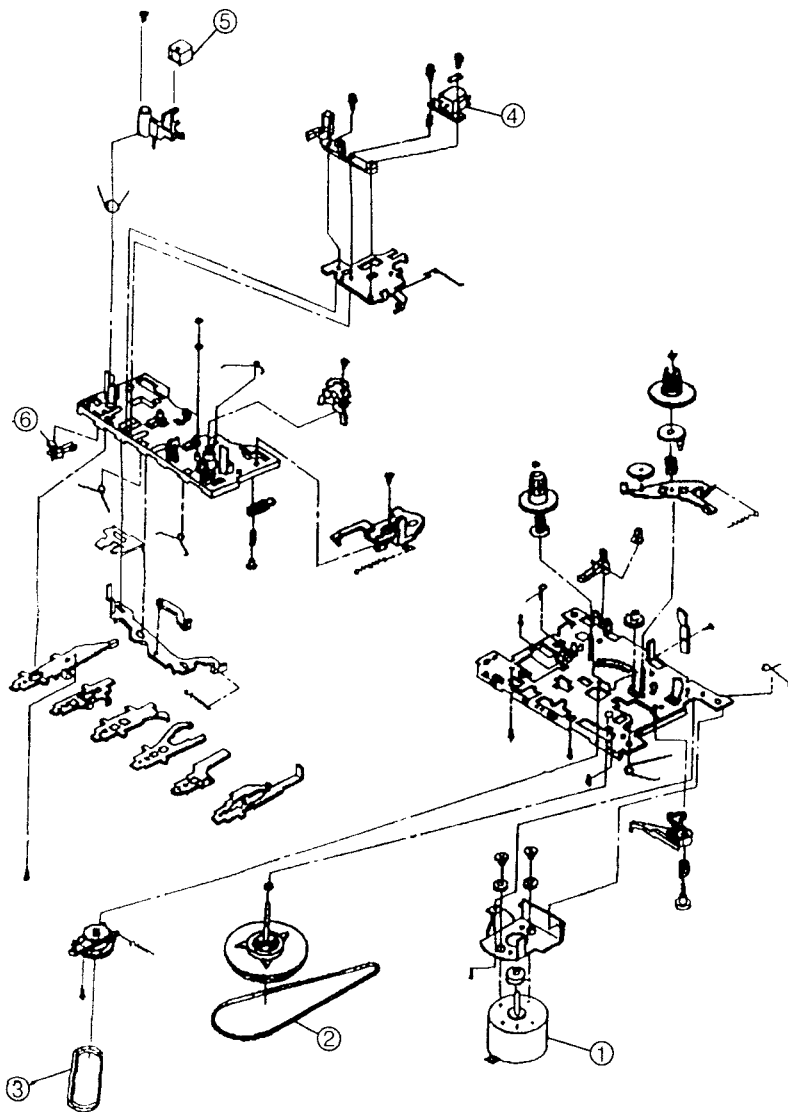
1. REMOVE 8 SCREWS OF ㉓ ITS TOP-CABINET PART
2. REMOVE THE CONNECT WIRE OF ㉓ AND REMOVE MAIN-PCB ASS'Y TO BACKWARD
3. REMOVE 4 SCREWS OF ㉔ ITS TOP-CABINET PART, AND REMOVE CASS-MECHA ASS'Y TO BACKWARD
4. REMOVE 4 SCREWS OF ㉕ ITS TOP-CABINET PART, AND REMOVE CD-MECHA ASS'Y TO BACKWARD



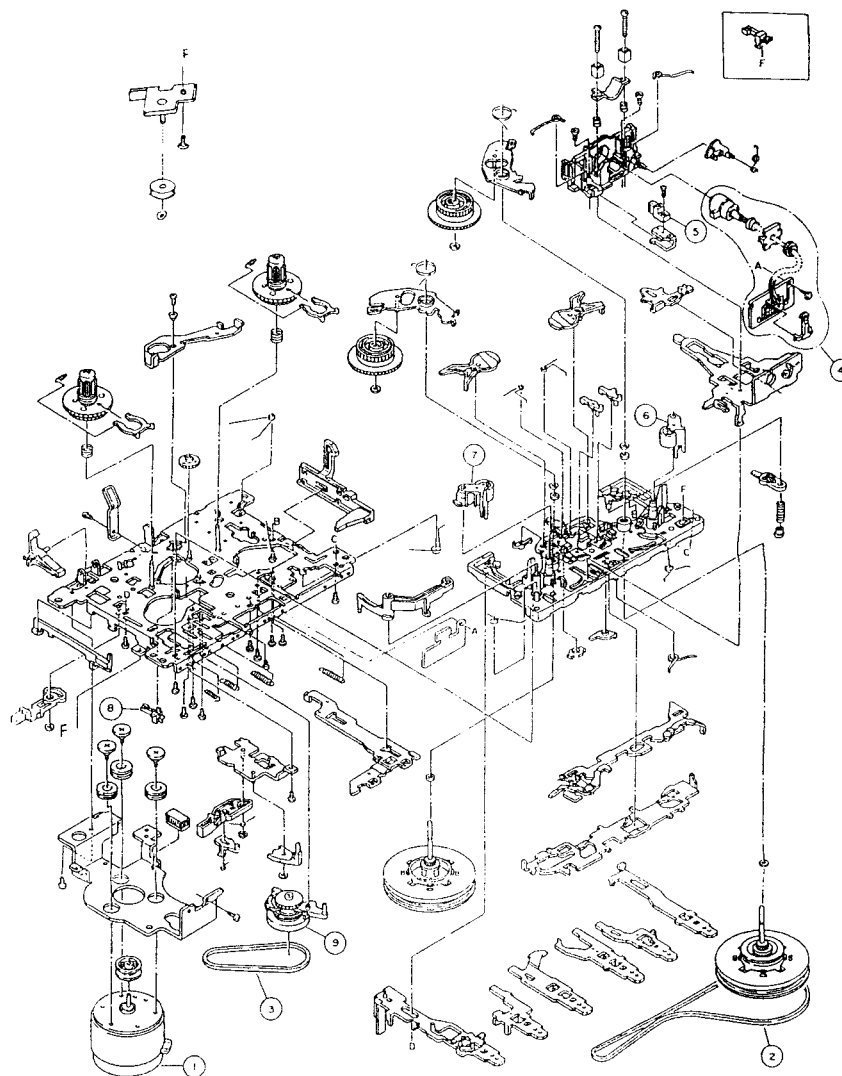
### 3.Exploded Views and Parts List

#### 3-1 Cassette Deck Exploded View and Parts List

3-1-1 AUTO STOP : RCD-M50/M50B



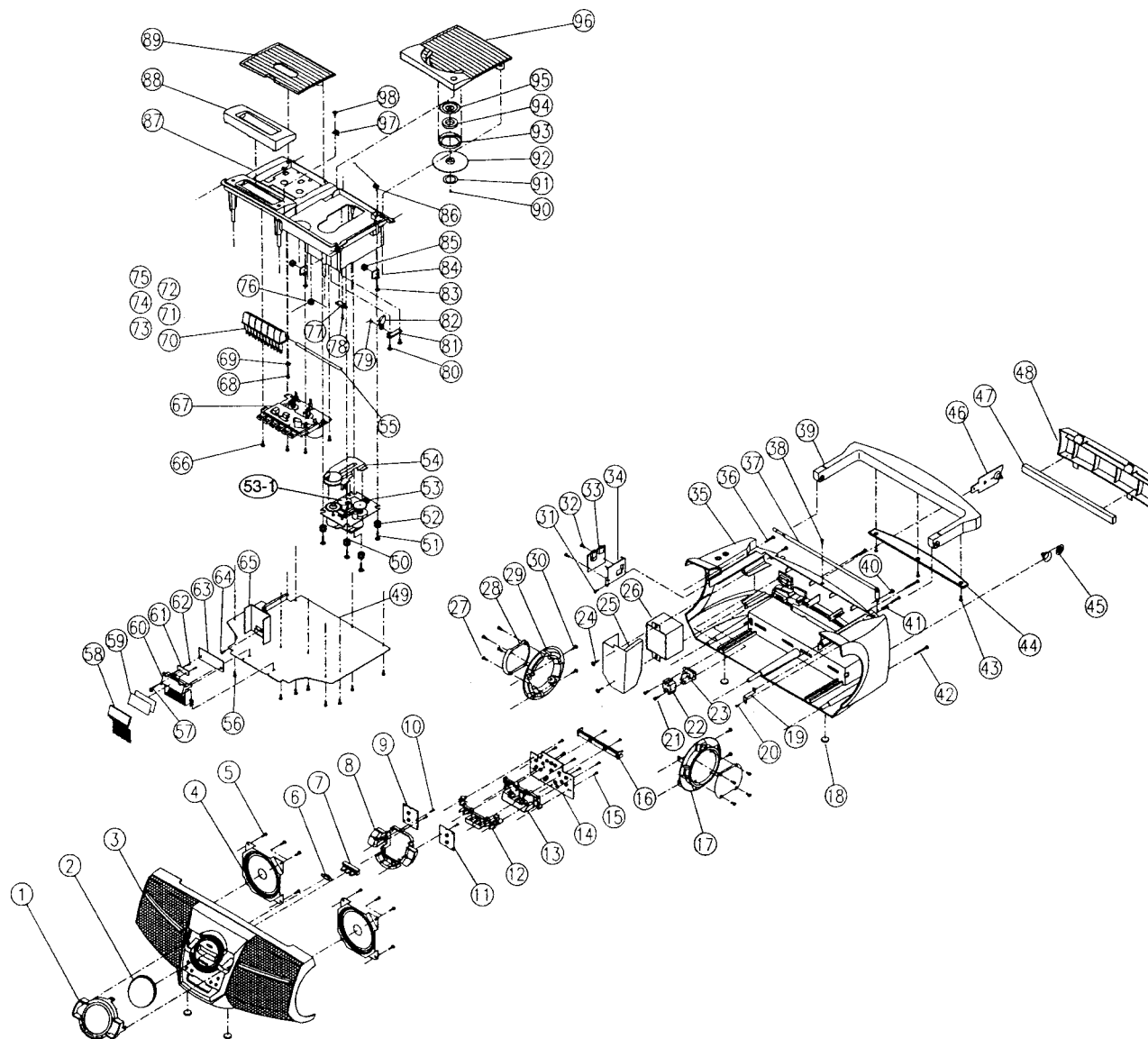
No.	Code No.	Description	Specification	Remarks
	AH81-00384M	DECK ASS'Y	CS-21FV-468	
1	AH81-00432A	MOTOR	EG530AD2B	EG530AD2B
2	AH81-00432B	M BELT	21-632	21-632
3	AH81-00432C	RF BELT	21-618	21-618
4	AH81-00432D	RP HEAD	20B03	20B03
5	AH81-00432E	E HEAD	TC230AN-SL	TC230AN-SL
6	AH81-00432H	LEAF SWITCH	21-706	21-706



1	AH81-00427A	DECK ASS'Y	TN-59RV-117	
2	AH81-00427B	MOTOR	EG530AD-2B	6002-03-22
3	AH81-00427C	M BELT	TN-59RV-01	1851-14-16
4	AH81-00427D	RF BELT	TN-59RV-02	1921-07-03
5	AH81-00427E	RP HEAD	YK50R-SSOCO	6202-01-97
6	AH81-00427F	E HEAD	TC-230SS	6207-10-07
7	AH81-00427G	PINCH ROLLER(F) ASS'Y	TN-59RV-03	1959-04-305
8	AH81-00427H	PINCH ROLLER(R) ASS'Y	TN-59RV-04	1909-04-306
9	AH81-00427J	LEAF SWITCH	MSW-1541T	6401-01-149
	AH81-00427K	RF CLUTCH ASS'Y	TN-59RV-05	1959-07-301

## 3-2 Main Exploded View and Parts List

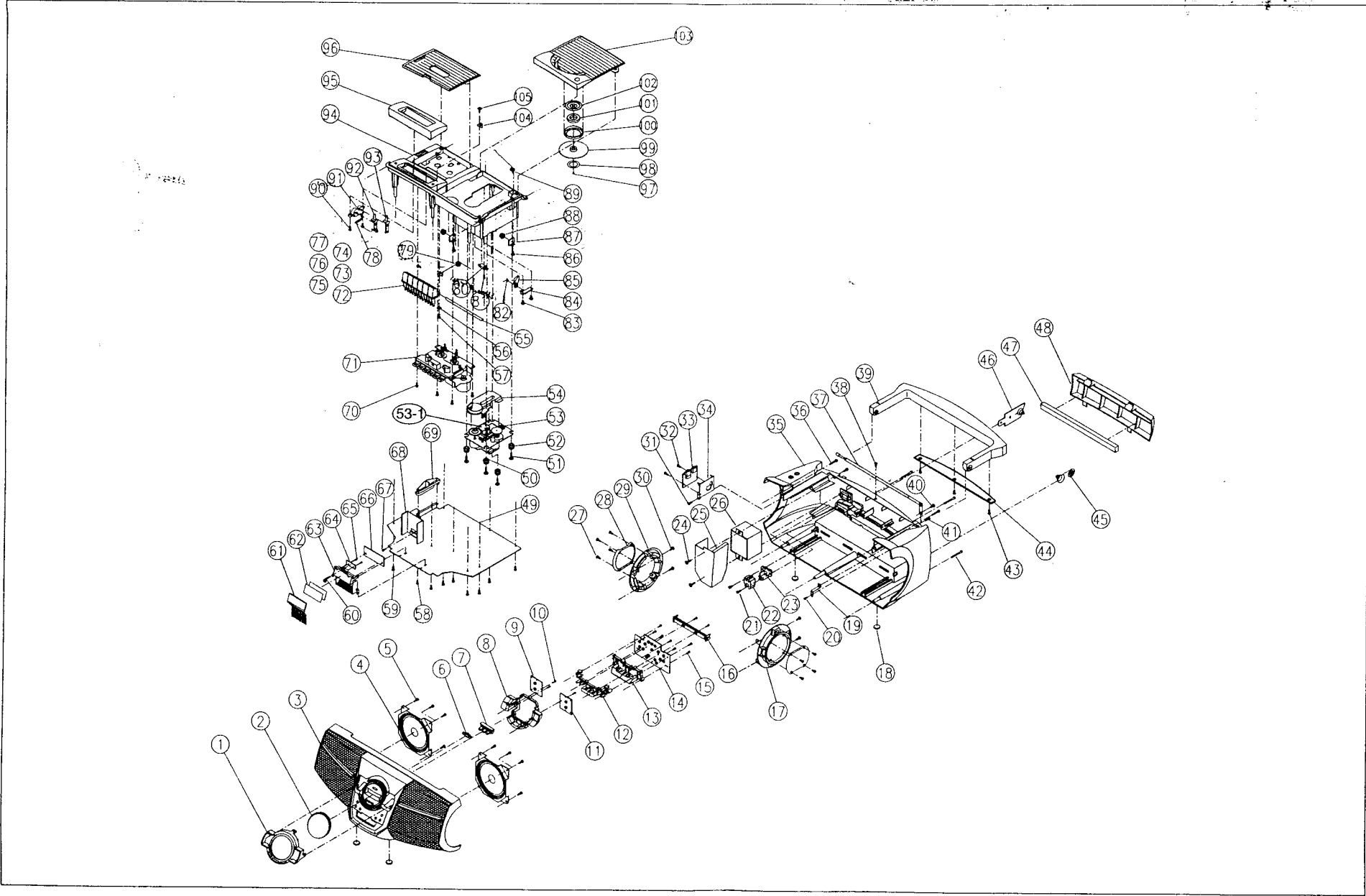
### 3-2-1 Exploded View : RCD-M50/M50B



### 3-2-2 Parts List

1	AH81-00454B	DECO RING	MOLD.BLUE HBL2067R	0101-45651-00	59	AH81-00447A	DISPLAY FILTER SHEET	T0.1	0103-43890-00
	AH81-00454F	DECO RING	DARK BLUE	RCD-M50B	61	AH92-01072K	SENSOR ASS'Y	30X11X1.6T 94HB	0320-M5008-00
2	AH81-00449A	LENS DISPLAY	ACRYLIC	0101-45656-00	63	AH81-00443D	LAMP BOARD	66X26X1.6T 94HB	0320-M5005-00
	AH81-00449C	LENS DISPLAY	C/BLUE, H/TRANS	RCD-M50B	65	AH81-00385K	HEAT SINK	AL PLATE T1.5	0102-43802-01
3	AH81-00387C	CABINET-FRONT ASS'Y	FRONT,GRILLE,DECO	0002-CDM50-02	67	AH81-00384M	DECK-CASSETTE	CS-21FV-468	0115-10M30-OP
	AH81-00387E	CABINET FRONT ASS'Y	SILVER BLUE	RCD-M50B	70	AH81-00399A	KNOB CASSETTE(REC)	ABS	0101-45623-06
4	AH81-00384H	SPEAKER-GENERAL	4,5W,40hm(BLK-CAP)	0118-03102-00		AH81-00399H	KNOB CASS REC	M/BLUE	RCD-M50B
6	AH81-00449B	LENS IR	ACRYLIC	0101-45659-00	71	AH81-00399B	KNOB CASSETTE(PLAY)	ABS	0101-45623-00
7	AH81-00448B	KNOB ALARM	ABS	0101-45653-00		AH81-00399N	KNOB CASS PLAY	M/BLUE	RCD-M50B
	AH81-00448F	KNOB ALARM	SILVER	RCD-M50B	72	AH81-00399C	KNOB CASSETTE(F.F)	ABS	0101-45623-04
8	AH81-00448A	KNOB FUNCTION	ABS	0101-45652-00		AH81-00399J	KNOB CASS F.F	M/BLUE	RCD-M50B
	AH81-00448E	KNOB FUNCTION	SILVER	RCD-M50B	73	AH81-00399D	KNOB CASSETTE(REW)	ABS	0101-45623-05
9	AH92-01072H	KEY 1 ASS'Y	39X42.5X1.6T 94HB	0320-M5006-00		AH81-00399K	KNOB CASS REW	M/BLUE	RCD-M50B
11	AH92-01072J	KEY 2 ASS'Y	39X42.5X1.6T 94HB	0320-M5007-00	74	AH81-00399E	KNOB CASSETTE(STOP)	ABS	0101-45623-03
12	AH81-00448C	KNOB MONO PROGRAM	ABS	0101-45657-00		AH81-00399L	KNOB CASS STOP	M/BLUE	RCD-M50B
	AH81-00448G	KNOB MONO PROGRAM	SILVER	RCD-M50B	75	AH81-00399F	KNOB CASSETTE(PAUSE)	ABS	0101-45623-02
13	AH81-00448D	KNOB VOLUME	ABS	0101-45658-00		AH81-00399M	KNOB CASS PAUSE	M/BLUE	RCD-M50B
	AH81-00448H	KNOB VOLUME	SILVER	RCD-M50B	76	AH81-00385E	SPRING DOOR CASS	PI 1.4	0102-43840-00
14	AH92-01072D	CONTROL ASS'Y	69X120X1.6T 94HB	0001-00M50-00	77	AH81-00382U	SWITCH-LEAF	LS-323-0	0323-60208-01
16	AH81-00447E	ADAPTOR PCB	ABS	0101-45655-00	79	AH81-00385J	SPRING HOOK	PI 0.3mm	0102-43847-00
17	AH81-00393A	DECO-SIDE WHEEL R	ABS	0101-45614-00	81	AH81-00384U	BRACKET HOOK	ABS	0101-45628-00
	AH81-00393B	DECO SIDE WHEEL R	M/BLUE	RCD-M50B	82	AH81-00384T	HOOK	ABS	0101-45627-00
19	AH81-00385A	BRACKET ANT	COPPER T0.3	0102-43831-00	86	AH81-00385D	SPRING DOOR CD	PI 1.4	0102-43839-00
23	AH81-00384D	JACK-AC POWER	CP2,WIRE-TYPE,W/LOVE	0322-30169-00	87	AH81-00404A	CABINET-TOP	HIPS	0101-45609-00
25	AH81-00385F	SHIELD TRANS	T 0.5	0102-43844-00		AH81-00404C	CABINE TOP	SILVER BLUE	RCD-M50B
26	AH81-00446F	TRANS-POWER	EI57*25,230V/50Hz	OPTION.0326-45700-67	88	AH81-00396B	COVER KNOB CASS	SAN	0101-45619-00
	AH81-00446G	TRANS-POWER	EI57*25,120V/60Hz	OPTION.0326-45700-70		AH81-00396C	COVER KNOB CASS	C/BLUE, H/TRANS	RCD-M50B
	AH81-00446H	TRANS-POWER	EI57*25,115/230V	OPTION.0326-45700-71	89	AH81-00426C	CA DOOR ASSY	COVER+BRACKET	0002-CDM50-00
28	AH81-00394A	DECO WHEEL CAP	SAN	0101-45615-00		AH81-00426F	CASS DOOR ASS'Y	SILVER BLUE	RCD-M50B
	AH81-00394C	DECO WHEEL CAP	C/BLUE, H/TRANS	RCD-M50B	92	AH81-00384R	PLATE-CHUCK B	ABS+FIBER GLASS	0101-32546-02
29	AH81-00392A	DECO-SIDE WHEEL L	ABS	0101-45613-00	93	AH81-00384S	RING CHUCKING	ABS BLACK	0101-45620-00
	AH81-00392B	DECO SIDE WHEEL L	M/BLUE	RCD-M50B	95	AH81-00384Y	PLATE CHUCK A	STEEL T0.6	0102-31274-00
33	AH92-01072E	MIC ASS'Y	48X40X1.6T 94HB	0001-00M50-02	96	AH81-00425B	CD DOOR ASSY	COVER+BRACKET	0002-CDM35-03
34	AH81-00384V	BRACKET PHONE PCB	ABS BLACK	0101-45629-00		AH81-00425D	CD DOOR ASS'Y	SILVER BLUE	RCD-M50B
35	AH81-00417A	CABINET REAR	HIPS	0101-45608-00					
	AH81-00417B	CABINET REAR	SILVER BLUE	RCD-M50B					
37	AH81-00384G	ANT-ROD	3S,Dia6*285mm	0114-06285-00					
39	AH81-00398A	HANDLE	ABS	0101-45622-00					
	AH81-00398C	HANDLE	SILVER BLUE	RCD-M50B					
44	AH81-00398B	COVER HANDLE	ABS	0101-45807-00					
	AH81-00398D	COVER HANDLE	SILVER BLUE	RCD-M50B					
45	AH81-00385N	SPRING BATT +-	PI 1.0	0119-30363-00					
46	AH92-01072F	BATTERY PCB ASS'Y		0002-CDM30-07					
48	AH81-00397A	LID BATTERY	HIPS	0101-45621-00					
	AH81-00397B	LID-BATTERY	SILVER BLUE	RCD-M50B					
49	AH92-01072C	MAIN ASS'Y	292X223X1.6T 94HB	0001-00M50-01					
50	AH81-00454D	VIBF.PROOF RUBBER	GREEN	0109-40361-01					
51	AH81-00385B	SHAFT-CD	PI2.6X16mm	0102-41598-00					
52	AH81-00454E	VIBF.PROOF RUBBER	RED	0109-40360-01					
53	AH81-00384L	DECK-CDP	CMS-N75VG6(U)	0115-60M30-0J					
53-1	AJ75-00601F	PICK-UP ASS'Y	SOH-AA(AAU)	0101-45630-00					
54	AH81-00551E	CAP PICK-UP	ABS BLACK	COMMON					
55	AH81-00385H	HINGE KNOB CASS	PI 5X124mm	0102-43846-01					
58	AH81-00444N	LCD DISPLAY	SDT-A292-TP-2	0347-40100-36					

3-2-3 Exploded View : RCD-M55/M55G



# 3-2-4 Parts List

Code	Part No.	Description	Specification
1	AH81-00454B	DECO RING	MOLD.BLUE HBL2067R
	AH81-00454G	DECO RING	DARK SILVER
2	AH81-00449A	LENS DISPLAY	ACRYLIC
	AH81-00449C	LENS DISPLAY	C/BLUE, H/TRANS
3	AH81-00387C	CABINET-FRONT ASS'Y	FRONT,GRILLE,DECO
	AH81-00387F	CABINET FRONT ASS'Y	SILVER GRAY
4	AH81-00384H	SPEAKER-GENERAL	4.5W,40hm(BLK-CAP)
6	AH81-00449B	LENS IR	ACRYLIC
7	AH81-00448B	KNOB ALARM	ABS
	AH81-00448F	KNOB ALARM	SILVER
8	AH81-00448A	KNOB FUNCTION	ABS
	AH81-00448E	KNOB FUNCTION	SILVER
9	AH92-01072H	KEY 1 ASS'Y	39X42.5X1.6T 94HB
11	AH92-01072J	KEY 2 ASS'Y	39X42.5X1.6T 94HB
12	AH81-00448C	KNOB MONO PROGRAM	ABS
	AH81-00448G	KNOB MONO PROGRAM	SILVER
13	AH81-00448D	KNOB VOLUME	ABS
	AH81-00448H	KNOB VOLUME	SILVER
14	AH92-01072D	CONTROL ASS'Y	69X120X1.6T 94HB
16	AH81-00447E	ADAPTOR PCB	ABS
17	AH81-00393A	DECO-SIDE WHEEL R	ABS
	AH81-00393C	DECO SIDE WHEEL R	DARK SILVER
19	AH81-00385A	BRACKET ANT	COPPER T0.3
23	AH81-00384D	JACK-AC POWER	CP2,WIRE-TYPE,W/LOVE
25	AH81-00385F	SHIELD TRANS	T 0.5
26	AH81-00446F	TRANS-POWER	EI57*25,230V/50Hz
	AH81-00446G	TRANS-POWER	EI57*25,120V/60Hz
	AH81-00446H	TRANS-POWER	EI57*25,115/230V
28	AH81-00394A	DECO WHEEL CAP	SAN
	AH81-00394A	DECO WHEEL CAP	L/GRAY, H/TRANS
29	AH81-00392A	DECO-SIDE WHEEL L	ABS
	AH81-00392C	DECO SIDE WHEEL L	DARK SILVER
33	AH92-07072E	MIC ASS'Y	48X40X1.6T 94HB
34	AH81-00384V	BRACKET PHONE PCB	ABS BLACK
35	AH81-00417A	CABINET REAR	HIPS
	AH81-00417C	CABINET REAR	SILVER GRAY
37	AH81-00384G	ANT-ROD	3S,Dia6*285mm
39	AH81-00398A	HANDLE	ABS
	AH81-00398E	HANDLE	SILVER GRAY
44	AH81-00398B	COVER HANDLE	ABS
	AH81-00398F	COVER HANDLE	SILVER GRAY
45	AH81-00385N	SPRING BATT +-	PI 1.0
46	AH92-01072F	BATTERY PCB ASS'Y	
48	AH81-00397A	LID BATTERY	HIPS
	AH81-00397C	LID-BATTERY	SILVER GRAY
49	AH92-01072C	MAIN ASS'Y	292X223X1.6T 94HB
50	AH81-00454D	VIBF.PROOF RUBBER	GREEN
51	AH81-00385B	SHAFT-CD	PI2.6X16mm
52	AH81-00454E	VIBF.PROOF RUBBER	RED
53	AH81-00384L	DECK-CDP	CMS-N75VG6(U)
53-1	AJ75-00601F	PICK-UP ASS'Y	SOH-AA(AAU)
54	AH81-00551E	CAP PICK-UP	ABS BLACK
55	AH81-00385H	HINGE KNOB CASS	PI 5X124mm
61	AH81-00444N	LCD DISPLAY	SDT-A292-TP-2

No.	Code No.	Description	Specification
62	AH81-00447A	DISPLAY FILTER SHEET	T0.1
64	AH92-01072K	SENSOR ASS'Y	30X11X1.6T 94HB
66	AH81-00443D	LAMP BOARD	66X26X1.6T 94HB
68	AH81-00385K	HEAT SINK	AL PLATE T1.5
69	AH81-00391A	BRACKET RECORDING	HIPS(RCD-M35)
71	AH81-00427A	DECK-CASSETTE	TN-59RV-117
72	AH81-00399A	KNOB CASSETTE(REC)	ABS
	AH81-00399P	KNOB CASS REC	DARK SILVER
73	AH81-00399B	KNOB CASSETTE(PLAY)	ABS
	AH81-00399U	KNOB CASS PLAY	DARK SILVER
74	AH81-00399C	KNOB CASSETTE(F.F)	ABS
	AH81-00399Q	KNOB CASS F.F	DARK SILVER
75	AH81-00399D	KNOB CASSETTE(REW)	ABS
	AH81-00399R	KNOB CASS REW	DARK SILVER
76	AH81-00399E	KNOB CASSETTE(STOP)	ABS
	AH81-00399S	KNOB CASS STOP	DARK SILVER
77	AH81-00399F	KNOB CASSETTE(PAUSE)	ABS
	AH81-00399T	KNOB CASS PAUSE	DARK SILVER
78	AH81-00420A	SPRING KNOB	DIA 0.3mm
79	AH81-00385E	SPRING DOOR CASS	PI 1.4
80	AH81-00382U	SWITCH-LEAF	LS-323-0
82	AH81-00385J	SPRING HOOK	PI 0.3mm
84	AH81-00384U	BRACKET HOOK	ABS
85	AH81-00384T	HOOK	ABS
89	AH81-00385D	SPRING DOOR CD	PI 1.4
91	AH81-00389A	BRACKET AUTO-REVESE	ABS MOLD L.GREY SPY
92	AH81-00388A	KNOB DIR	MOLD
	AH81-00388B	KNOB DIR	DARK SILVER
93	AH81-00386A	KNOB MODE	ABS MOLD L.GREY SPY
	AH81-00386B	KNOB MODE	DARK SILVER
94	AH81-00404B	CABINET-TOP	HIPS
	AH81-00404D	CABINE TOP	DARK SILVER
95	AH81-00396A	COVER KNOB CASS	SAN,GRAY
	AH81-00396A	COVER KNOB CASS	L/GRAY, H/TRANS
96	AH81-00426D	CA DOOR ASSY	COVER+BRACKET
	AH81-00426G	CASS DOOR ASS'Y	DARK SILVER (HOLE)
99	AH81-00384R	PLATE-CHUCK B	ABS+FIBER GLASS
100	AH81-00384S	RING CHUCKING	ABS BLACK
102	AH81-00384Y	PLATE CHUCK A	STEEL T0.6
103	AH81-00425A	CD DOOR ASSY	COVER+BRACKET
	AH81-00425C	CD DOOR ASS'Y	DARK SILVER

## 4. Electrical Parts List

### \*\*\*\* RCD-M50/55/50B/55G Parts List \*\*\*\*

IC201	AH09-10064N	IC-MICOM	330723D56-OWR5.800FPCD580
1303	AH14-10007G	IC	LC72131DIP50K PLL
IC501	AH81-00382Y	IC-PPE REC	0330-22241-B15.KA22241
IC802	AH81-00383B	IC-POWER	0330-45417-17.BA5417
Q601	AH81-00383D	TR-SMALL	0329-1815G-01.2SC1815
Q602	AH81-00383D	TR-SMALL	0329-1815G-01.2SC1815
Q701	AH81-00383D	TR-SMALL	0329-1815G-01.2SC1815
Q101	AH81-00383F	TR-SMALL	0329-8550C-17.SS8550C
Q102	AH81-00383F	TR-SMALL	0329-8550C-17.SS8550C
Q201	AH81-00383G	TR-SMALL	0329-9012H-17.SS9012H
Q251	AH81-00383G	TR-SMALL	0329-9012H-17.SS9012H
Q603	AH81-00383G	TR-SMALL	0329-9012H-17.SS9012H
Q303	AH81-00383H	TR-SMALL	0329-9014C-17.SS9014C
Q304	AH81-00383H	TR-SMALL	0329-9014C-17.SS9014C
Q551	AH81-00383H	TR-SMALL	0329-9014C-17.SS9014C
Q552	AH81-00383H	TR-SMALL	0329-9014C-17.SS9014C
Q553	AH81-00383H	TR-SMALL	0329-9014C-17.SS9014C
Q604	AH81-00383H	TR-SMALL	0329-9014C-17.SS9014C
Q607	AH81-00383H	TR-SMALL	0329-9014C-17.SS9014C
Q609	AH81-00383H	TR-SMALL	0329-9014C-17.SS9014C
Q552	AH81-00383K	DIODE-RECTIFIER	0344-14004-06.IN4004
Q603	AH81-00383K	DIODE-RECTIFIER	0344-14004-06.IN4004
Q602	AH81-00383M	DIODE-ZENOR	0344-10049-01.8.6V 12W
Q608	AH81-00383M	DIODE-ZENOR	0344-10049-01.8.6V 12W
	AH81-00383O	FERRITE-BAR	0328-10080-01.DIA10*80MM
T701	AH81-00383R	TRANS-IF	0331-04806-05.D-814806.10MM/BL
	AH81-00385K	HEAT-SINK	0102-43848-00.AL PLATE T1.5
FMANT	AH81-00443J	CONNECTOR-PIN	0321-01A15-61.A1561WV2.1P
AC	AH81-00443K	CONNECTOR-PIN	0321-01A23-61.A2361WV2.1P
IN	AH81-00443K	CONNECTOR-PIN	0321-01A23-61.A2361WV2.1P
CN211	AH81-00443L	CONNECTOR-HEADER	0321-02009-80.CXH-2W.2P.2.5MM
CN252	AH81-00443M	CONNECTOR-HEADER	0321-03023-10.CXH-3W.3P.2.5MM
CN612	AH81-00443M	CONNECTOR-HEADER	0321-03023-10.CXH-3W.3P.2.5MM
CN615	AH81-00443M	CONNECTOR-HEADER	0321-03023-10.CXH-3W.3P.2.5MM
CN501	AH81-00443N	CONNECTOR-HEADER	0321-03009-80.S2M-3W.3S.2MM
CN551	AH81-00443P	CONNECTOR-HEADER	0321-04023-10.CXH-4W.4P.2.5MM
CN610	AH81-00443P	CONNECTOR-HEADER	0321-04023-10.CXH-4W.4P.2.5MM
CN613	AH81-00443P	CONNECTOR-HEADER	0321-04023-10.CXH-4W.4P.2.5MM
CN103	AH81-00443Q	CONNECTOR-HEADER	0321-06023-10.CXH-6W.6P.2.5MM
CN611	AH81-00443Q	CONNECTOR-HEADER	0321-06023-10.CXH-6W.6P.2.5MM
CN202	AH81-00443R	CONNECTOR-HEADER	0321-14025-60.14P.1MM STRAIGHT
CN101	AH81-00443S	CONNECTOR-FPC/FC/PIC/PC/FC/PIC	0321-16025-60.16P.1MM STRAIGHT
CN251	AH81-00443T	CONNECTOR-FPC/FC/PIC/PC/FC/PIC	0321-14021-06.14P.1MM ANGLE
	AH81-00443U	CABLE-FLAT	0321-16120-02.120MM.16P.1MM.FF
FMANT	AH81-00443W	LEAD FASTEN	0321-01300-52.300MM.#26
CN252-CN254	AH81-00443X	FLAT-WIRE	0321-04060-C35.4P-60MM.#26
CN253-CN255	AH81-00443X	FLAT-WIRE	0321-04060-C35.4P-60MM.#26
CN650	AH81-00443Y	CONNECTOR-W	0321-03080-135.CXH.3P.2.5MM.#2
CN256	AH81-00443Z	CONNECTOR-WIRE	0321-03100-135.CXH.3P.2.5MM.#2
	AH81-00444A	CONNECTOR-ASSY	0321-02250-135.CXH.2P.2.5MM.#2
CN501	AH81-00444B	CONNECTOR-ASSY	0321-03170-838.S2M-3H.3P.2MM.#
SPK WIRE	AH81-00444C	CONNECTOR-ASSY	0321-03600-117.CXH.3P.2.5MM.#2
CN613	AH81-00444D	CONNECTOR-ASSY	0321-04250-145.4P.2.5MM.#26.#2
CN103	AH81-00444E	CONNECTOR-ASSY	0321-06200-122.CXH.6P.2.5MM.#2
CN611	AH81-00444F	CONNECTOR-ASSY	0321-06220-135.CXH.6P.2.5MM.#2
SW501	AH81-00444G	SWITCH-SLID	0324-90089-00.RSD-92003.9C-2PI
IC302	AH81-00444H	IC-CHIP TUNER	0330-8132N-01.TA8132N
IC303	AH81-00444J	IC-PLL	0330-72131-02.LC72131
IC301	AH81-00444K	IC-FM FRONT	0330-7358A-01.TA7358AP
IC104	AH81-00444M	IC-REG	0330-7805F-44.NJ7805FA
LC0201	AH81-00444N	LCD DISPLAY	0347-40100-36.SDT-A292-TP.2
Q1	AH81-00444Q	TR-SMALL	0329-0536F-02.2SC536F
Q2	AH81-00444Q	TR-SMALL	0329-0536F-02.2SC536F
Q3	AH81-00444Q	TR-SMALL	0329-0536F-02.2SC536F
Q606	AH81-00444R	TR-SMALL	0329-00857-00.2SB857
Q608	AH81-00444S	TR-SMALL	0329-0562C-00.2SB62C
Q302	AH81-00444T	TR-SMALL	0329-1417G-00.25C1417G
Q605	AH81-00444U	TR-SMALL	0329-8050B-00.8050B
Q611	AH81-00444U	TR-SMALL	0329-8050B-00.8050B
Q202	AH81-00444W	TR-SMALL	0329-9013F-00.9013F
Q252	AH81-00444W	TR-SMALL	0329-9013F-00.9013F
Q301	AH81-00444X	TR-SMALL	0329-9015C-01.9015C
Q306	AH81-00444X	TR-SMALL	0329-9015C-01.9015C
Q309	AH81-00444Z	DIODE-VARIC	0344-3V149-03.15V149
D310	AH81-00444Z	DIODE-VARIC	0344-3V149-03.15V149
D304	AH81-00445A	DIODE-VARIC	0344-3V101-03.15V101
D305	AH81-00445A	DIODE-VARIC	0344-3V101-03.15V101
D609	AH81-00445B	DIODE-RECTI	0344-15397-00.N5397
D610	AH81-00445B	DIODE-RECTI	0344-15397-00.N5397
D611	AH81-00445B	DIODE-RECTI	0344-15397-00.N5397
D612	AH81-00445B	DIODE-RECTI	0344-15397-00.N5397
D311	AH81-00445C	DIODE-ZENOR	0344-125C2-01.5.2V 12W
T303	AH81-00445G	TRANS-IF	0331-07961-05.D-817961.10MM/YE
T302	AH81-00445H	TRANS-IF	0331-07968-05.DA-817968.7A121I
T304	AH81-00445J	TRANS-IF	0331-08154-05.B18154.10MM/RED
L304	AH81-00445K	COIL-BOBIN	0332-10347-02.DIA10MM.62T.20T
	AH81-00445L	HOLDER-ANT	0101-10014-00.PP MOULD.10X15MMX
L301	AH81-00445M	COIL-SPRING	0332-20012-00.3.5T RFP 4D CWF
L302	AH81-00445N	COIL-SPRING	0332-20026-03.3.5T RFP 4.5D CW
X302	AH81-00445Q	FILTER-CERAMIC	0342-C2450Y-00.SFU450Y
T301	AH81-00445R	BPF-COIL	0342-12135-16A-258A(T-829847
T301	AH81-00445S	BPF-COIL	0342-17906-00.BTTW-857906/64-1
	AH81-00445T	ANT-ROD FM	0114-06285-00.3S-6X285MM
X304	AH81-00445V	C-RESONATOR	0363-4056F-01.CS8456F18
X201	AH81-00445V	C-RESONATOR	0363-4056G-01.CSA 4.00MG
X101	AH81-00445W	C-RESONATOR	0363-16934-MC4.6 6.334MX2040
X202	AH81-00445X	X-TAL	0355-40269-00.32.758KHZ
TC2	AH81-00445Y	C-TRIMMER	0341-10010-03.10P.CVN10.H-TYP
TC7	AH81-00445Y	C-TRIMMER	0341-10010-03.10P.CVN10.H-TYP
TC301	AH81-00445Z	C-TRIMMER	0341-10020-00.20P.DIA-6MM
TC302	AH81-00445Z	C-TRIMMER	0341-10020-00.20P.DIA-6MM
	AH81-00447D	HOLDER LCD	0101-45664-00.ABS WHITE
D101	0401-000101	DIODE-SWITCHING	1N4148.100V.200mA.500mW.4ns
D102	0401-000101	DIODE-SWITCHING	1N4148.100V.200mA.500mW.4ns
D103	0401-000101	DIODE-SWITCHING	1N4148.100V.200mA.500mW.4ns
D104	0401-000101	DIODE-SWITCHING	1N4148.100V.200mA.500mW.4ns
D202	0401-000101	DIODE-SWITCHING	1N4148.100V.200mA.500mW.4ns
D203	0401-000101	DIODE-SWITCHING	1N4148.100V.200mA.500mW.4ns
D204	0401-000101	DIODE-SWITCHING	1N4148.100V.200mA.500mW.4ns
D205	0401-000101	DIODE-SWITCHING	1N4148.100V.200mA.500mW.4ns
D206	0401-000101	DIODE-SWITCHING	1N4148.100V.200mA.500mW.4ns
D207	0401-000101	DIODE-SWITCHING	1N4148.100V.200mA.500mW.4ns
D251	0401-000101	DIODE-SWITCHING	1N4148.100V.200mA.500mW.4ns
D252	0401-000101	DIODE-SWITCHING	1N4148.100V.200mA.500mW.4ns
D301	0401-000101	DIODE-SWITCHING	1N4148.100V.200mA.500mW.4ns
D302	0401-000101	DIODE-SWITCHING	1N4148.100V.200mA.500mW.4ns
D303	0401-000101	DIODE-SWITCHING	1N4148.100V.200mA.500mW.4ns
D306	0401-000101	DIODE-SWITCHING	1N4148.100V.200mA.500mW.4ns
D308	0401-000101	DIODE-SWITCHING	1N4148.100V.200mA.500mW.4ns
D551	0401-000101	DIODE-SWITCHING	1N4148.100V.200mA.500mW.4ns
D606	0401-000101	DIODE-SWITCHING	1N4148.100V.200mA.500mW.4ns
D607	0401-000101	DIODE-SWITCHING	1N4148.100V.200mA.500mW.4ns
D201	0402-000279	DIODE-RECTIFIER	1N60S -45V.50MA.DOA-7.TP
D312	0403-000352	DIODE-ZENER	UZ47BM.4.7V.4.5.0V.500mW
D605	0403-000363	DIODE-ZENER	UZ68BH.6.8V.6.8.2V.500mW
D604	0403-000396	DIODE-ZENER	UZP5.8B.6.8V.6.4.7.2V.1W.DC-41
D602	0403-000398	DIODE-ZENER	UZP8.2B.8.2V.7.8.7V.1W.DC
Q610	0502-000303	TR-POWER	KS2882.NPNA.1W
IC102	0904-001442	IC-DSP	0330-09286-15.XS9286.8BIT.OFF
	1003-000179	IC-MOTOR DRIVER	0330-09289-015.KA9289.SOP.28P
IC103	1203-000294	IC-POTI FIXED REG.	KA7808-AB.TC-220.3P. PLASTIC
IC101	1204-001286	IC-ASSP	0330-09223-15.KB9223.QFP.80P
IC601	1204-001465	IC-VOLUME-TONE CONT.	TD47400.SOP.28.18.1 PLASTIC.1
R627	2001-000005	R-CARBON	390ohm.5%.18W.AA.TP.1.8x3.2mm
R628	2001-000005	R-CARBON	390ohm.5%.18W.AA.TP.1.8x3.2mm
R123	2001-000008	R-CARBON	15Kohm.5%.18W.AA.TP.1.8x3.2mm
R209	2001-000008	R-CARBON	15Kohm.5%.18W.AA.TP.1.8x3.2mm
R119	2001-000010	R-CARBON	68Kohm.5%.18W.AA.TP.1.8x3.2mm
R539	2001-000012	R-CARBON	68Kohm.5%.18W.AA.TP.1.8x3.2mm
R638	2001-000019	R-CARBON(S)	100ohm.5%.12W.AA.TP.2.4x6.4mm
R504	2001-000110	R-CARBON	100ohm.5%.14W.AA.TP.2.4x6.4mm
R115	2001-000273	R-CARBON	100Kohm.5%.18W.AA.TP.1.8x3.2m
R120	2001-000273	R-CARBON	100Kohm.5%.18W.AA.TP.1.8x3.2m
R126	2001-000273	R-CARBON	100Kohm.5%.18W.AA.TP.1.8x3.2m
R134	2001-000273	R-CARBON	100Kohm.5%.18W.AA.TP.1.8x3.2m
R140	2001-000273	R-CARBON	100Kohm.5%.18W.AA.TP.1.8x3.2m
R144	2001-000273	R-CARBON	100Kohm.5%.18W.AA.TP.1.8x3.2m
R147	2001-000273	R-CARBON	100Kohm.5%.18W.AA.TP.1.8x3.2m
R204	2001-000273	R-CARBON	100Kohm.5%.18W.AA.TP.1.8x3.2m
R252	2001-000273	R-CARBON	100Kohm.5%.18W.AA.TP.1.8x3.2m
R324	2001-000273	R-CARBON	100Kohm.5%.18W.AA.TP.1.8x3.2m
R327	2001-000273	R-CARBON	100Kohm.5%.18W.AA.TP.1.8x3.2m
R312	2001-000281	R-CARBON	100ohm.5%.18W.AA.TP.1.8x3.2mm
R318	2001-000281	R-CARBON	100ohm.5%.18W.AA.TP.1.8x3.2mm
R326	2001-000281	R-CARBON	100ohm.5%.18W.AA.TP.1.8x3.2mm
R347	2001-000281	R-CARBON	100ohm.5%.18W.AA.TP.1.8x3.2mm
R112	2001-000282	R-CARBON	10KOHM.1%.18W.AD.TP
R113	2001-000282	R-CARBON	10KOHM.1%.18W.AD.TP
R208	2001-000282	R-CARBON	10KOHM.1%.18W.AD.TP
R319	2001-000282	R-CARBON	10KOHM.1%.18W.AD.TP
R320	2001-000282	R-CARBON	10KOHM.1%.18W.AD.TP

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C150	2201-000163	C-CERAMIC.DISC	10nF,+80-20%,50V,Y5V,6.5*5.5MM
C152	2201-000163	C-CERAMIC.DISC	10nF,+80-20%,50V,Y5V,6.5*5.5MM
C159	2201-000163	C-CERAMIC.DISC	10nF,+80-20%,50V,Y5V,6.5*5.5MM
C160	2201-000163	C-CERAMIC.DISC	10nF,+80-20%,50V,Y5V,6.5*5.5MM
C161	2201-000163	C-CERAMIC.DISC	10nF,+80-20%,50V,Y5V,6.5*5.5MM
C166	2201-000163	C-CERAMIC.DISC	10nF,+80-20%,50V,Y5V,6.5*5.5MM
C302	2201-000163	C-CERAMIC.DISC	10nF,+80-20%,50V,Y5V,6.5*5.5MM
C314	2201-000163	C-CERAMIC.DISC	10nF,+80-20%,50V,Y5V,6.5*5.5MM
C352	2201-000202	C-CERAMIC.DISC	10pF,5%,50V,NPO,5.0*3.0,0.5MM,TP
C104	2201-000223	C-CERAMIC.DISC	12pF,5%,50V,NPO,5.0*3.0,0.2,5mm
C328	2201-000223	C-CERAMIC.DISC	12pF,5%,50V,NPO,5.0*3.0,0.2,5mm
C101	2201-000300	C-CERAMIC.DISC	1nF,20%,50V,Y5T,4x4mm,5mm,TP
C109	2201-000300	C-CERAMIC.DISC	1nF,20%,50V,Y5T,4x4mm,5mm,TP
C114	2201-000300	C-CERAMIC.DISC	1nF,20%,50V,Y5T,4x4mm,5mm,TP
C133	2201-000300	C-CERAMIC.DISC	1nF,20%,50V,Y5T,4x4mm,5mm,TP
C136	2201-000300	C-CERAMIC.DISC	1nF,20%,50V,Y5T,4x4mm,5mm,TP
C304	2201-000300	C-CERAMIC.DISC	1nF,20%,50V,Y5T,4x4mm,5mm,TP
C329	2201-000300	C-CERAMIC.DISC	1nF,20%,50V,Y5T,4x4mm,5mm,TP
C356	2201-000300	C-CERAMIC.DISC	1nF,20%,50V,Y5T,4x4mm,5mm,TP
C363	2201-000300	C-CERAMIC.DISC	1nF,20%,50V,Y5T,4x4mm,5mm,TP
C111	2201-000326	C-CERAMIC.DISC	2.2nF,+10%,50V,Y5P,TP,7x3.5
C201	2201-000381	C-CERAMIC.DISC	22nF,+80%,-20%,50V,Y5V,8.0*4.0
C311	2201-000381	C-CERAMIC.DISC	22nF,+80%,-20%,50V,Y5V,8.0*4.0
C112	2201-000381	C-CERAMIC.DISC	22nF,+80%,-20%,50V,Y5V,8.0*4.0
C313	2201-000381	C-CERAMIC.DISC	22nF,+80%,-20%,50V,Y5V,8.0*4.0
C325	2201-000381	C-CERAMIC.DISC	22nF,+80%,-20%,50V,Y5V,8.0*4.0
C326	2201-000381	C-CERAMIC.DISC	22nF,+80%,-20%,50V,Y5V,8.0*4.0
C354	2201-000381	C-CERAMIC.DISC	22nF,+80%,-20%,50V,Y5V,8.0*4.0
C360	2201-000381	C-CERAMIC.DISC	22nF,+80%,-20%,50V,Y5V,8.0*4.0
C330	2201-000381	C-CERAMIC.DISC	22nF,+80%,-20%,50V,Y5V,8.0*4.0
C620	2201-000381	C-CERAMIC.DISC	22nF,+80%,-20%,50V,Y5V,8.0*4.0
C635	2201-000381	C-CERAMIC.DISC	22nF,+80%,-20%,50V,Y5V,8.0*4.0
C644	2201-000381	C-CERAMIC.DISC	22nF,+80%,-20%,50V,Y5V,8.0*4.0
C646	2201-000381	C-CERAMIC.DISC	22nF,+80%,-20%,50V,Y5V,8.0*4.0
C647	2201-000381	C-CERAMIC.DISC	22nF,+80%,-20%,50V,Y5V,8.0*4.0
C648	2201-000381	C-CERAMIC.DISC	22nF,+80%,-20%,50V,Y5V,8.0*4.0
C649	2201-000381	C-CERAMIC.DISC	22nF,+80%,-20%,50V,Y5V,8.0*4.0
C207	2201-000389	C-CERAMIC.DISC	22pF,5%,50V,NPO,5.0*3.0,0.5MM,TP
C208	2201-000389	C-CERAMIC.DISC	22pF,5%,50V,NPO,5.0*3.0,0.5MM,TP
C303	2201-000397	C-CERAMIC.DISC	24pF,5%,50V,NPO,5.0*3.0,0.5MM,TP
C308	2201-000397	C-CERAMIC.DISC	24pF,5%,50V,NPO,5.0*3.0,0.5MM,TP
C156	2201-000423	C-CERAMIC.DISC	27pF,5%,50V,NPO,5.0*3.0,0.5MM,TP
C157	2201-000423	C-CERAMIC.DISC	27pF,5%,50V,NPO,5.0*3.0,0.5MM,TP
C319	2201-000432	C-CERAMIC.DISC	2PF,5%,50V,NPO,5.0*3.0
C338	2201-000459	C-CERAMIC.DISC	30pF,5%,50V,NPO,5.0*3.0,0.5MM,TP
C118	2201-000470	C-CERAMIC.DISC	330pF,10%,50V,SL,8x4mm,5mm,TP
C322	2201-000470	C-CERAMIC.DISC	330pF,10%,50V,SL,8x4mm,5mm,TP
C345	2201-000470	C-CERAMIC.DISC	330pF,10%,50V,SL,8x4mm,5mm,TP
C205	2201-000483	C-CERAMIC.DISC	33pF,5%,50V,NPO,3x3,5mm,5mm,TP
C5	2201-000499	C-CERAMIC.DISC	390pF,5%,50V,SL,8.0*3.0,0.2,5mm
C154	2201-000565	C-CERAMIC.DISC	47nF,+80%,-20%,50V,Y5V,12.5*4
C351	2201-000565	C-CERAMIC.DISC	47nF,+80%,-20%,50V,Y5V,12.5*4
C520	2201-000601	C-CERAMIC.DISC	560pF,10%,50V,Y5P,5.0*3.0,0.5MM
C324	2201-000601	C-CERAMIC.DISC	560pF,10%,50V,Y5P,5.0*3.0,0.5MM
C301	2201-000751	C-CERAMIC.DISC	39pF,5%,50V,NPO,5x3,5mm,5mm,TP
C107	2201-000783	C-CERAMIC.DISC	100nF,+80%,-20%,50V,Y5V,-5mm
C108	2201-000783	C-CERAMIC.DISC	100nF,+80%,-20%,50V,Y5V,-5mm
C110	2201-000783	C-CERAMIC.DISC	100nF,+80%,-20%,50V,Y5V,-5mm
C123	2201-000783	C-CERAMIC.DISC	100nF,+80%,-20%,50V,Y5V,-5mm
C124	2201-000783	C-CERAMIC.DISC	100nF,+80%,-20%,50V,Y5V,-5mm
C146	2201-000783	C-CERAMIC.DISC	100nF,+80%,-20%,50V,Y5V,-5mm
C147	2201-000783	C-CERAMIC.DISC	100nF,+80%,-20%,50V,Y5V,-5mm
C155	2201-000783	C-CERAMIC.DISC	100nF,+80%,-20%,50V,Y5V,-5mm
C306	2201-000783	C-CERAMIC.DISC	100nF,+80%,-20%,50V,Y5V,-5mm
C340	2201-000783	C-CERAMIC.DISC	100nF,+80%,-20%,50V,Y5V,-5mm
C380	2201-000783	C-CERAMIC.DISC	100nF,+80%,-20%,50V,Y5V,-5mm
C607	2201-000783	C-CERAMIC.DISC	100nF,+80%,-20%,50V,Y5V,-5mm
C608	2201-000783	C-CERAMIC.DISC	100nF,+80%,-20%,50V,Y5V,-5mm
C612	2201-000783	C-CERAMIC.DISC	100nF,+80%,-20%,50V,Y5V,-5mm
C613	2201-000783	C-CERAMIC.DISC	100nF,+80%,-20%,50V,Y5V,-5mm
C614	2201-000783	C-CERAMIC.DISC	100nF,+80%,-20%,50V,Y5V,-5mm
C309	2201-000838	C-CERAMIC.DISC	3PF,0.3PF,50V,CH,TP,5*3.5
C310	2201-000868	C-CERAMIC.DISC	8PF,5%,50V,RH,TP,5*3
C105	2301-000379	C-FILM.PEF	10nF,10%,50V,6x12x3.5,TP
C332	2301-000379	C-FILM.PEF	10nF,10%,50V,6x12x3.5,TP
C333	2301-000379	C-FILM.PEF	10nF,10%,50V,6x12x3.5,TP
C117	2301-000387	C-FILM.PEF	150nF,10%,50V,12.5x15x7.5,TP
C339	2301-000387	C-FILM.PEF	150nF,10%,50V,12.5x15x7.5,TP
C342	2301-000387	C-FILM.PEF	150nF,10%,50V,12.5x15x7.5,TP
C507	2301-000400	C-FILM.PEF	1nF,10%,50V,5.5x12x3,TP
C509	2301-000400	C-FILM.PEF	1nF,10%,50V,5.5x12x3,TP
C626	2301-000400	C-FILM.PEF	1nF,10%,50V,5.5x12x3,TP
C629	2301-000400	C-FILM.PEF	1nF,10%,50V,5.5x12x3,TP
C701	2301-000400	C-FILM.PEF	1nF,10%,50V,5.5x12x3,TP
C334	2301-000404	C-FILM.PEF	2.2nF,10%,50V,5.5x12x3,TP
C335	2301-000404	C-FILM.PEF	2.2nF,10%,50V,5.5x12x3,TP
C510	2301-000404	C-FILM.PEF	2.2nF,10%,50V,5.5x12x3,TP
C513	2301-000404	C-FILM.PEF	2.2nF,10%,50V,5.5x12x3,TP
C318	2301-000412	C-FILM.PEF	22nF,10%,50V,8x12x4,TP
C116	2301-000430	C-FILM.PEF	33nF,10%,50V,9x12.5x4.5,TP
C128	2301-000430	C-FILM.PEF	33nF,10%,50V,9x12.5x4.5,TP
C144	2301-000430	C-FILM.PEF	33nF,10%,50V,9x12.5x4.5,TP
C330	2301-000430	C-FILM.PEF	33nF,10%,50V,9x12.5x4.5,TP

C517	2301-000430	C-FILM.PEF	33nF,10%,50V,9x12.5x4.5,TP
C527	2301-000430	C-FILM.PEF	33nF,10%,50V,9x12.5x4.5,TP
C103	2301-000442	C-FILM.PEF	4.7nF,10%,50V,6x12x3,TP
C605	2301-000453	C-FILM.PEF	5.6nF,10%,50V,5.5x7x3MM,5
C606	2301-000453	C-FILM.PEF	5.6nF,10%,50V,5.5x7x3MM,5
C361	2301-000469	C-FILM.PEF	68nF,10%,50V,10x12.5x5.5,TP
C315	2301-000476	C-FILM.PEF	82nF,10%,50V,10.5x12.5x6,TP
C321	2301-000475	C-FILM.PEF	82nF,10%,50V,10.5x12.5x6,TP
C362	2301-000475	C-FILM.PEF	82nF,10%,50V,10.5x12.5x6,TP
C327	2302-000232	C-FILM.PSF	360pF,5%,50V,5.5x11.5,BK
C209	2401-000213	C-AL	100nF,20%,50V,GP,3.5,2.5MM,TP
C122	2401-000240	C-AL	100uF,20%,10V,GP,5*11mm,5mm,TP
C126	2401-000240	C-AL	100uF,20%,10V,GP,5*11mm,5mm,TP
C129	2401-000240	C-AL	100uF,20%,10V,GP,5*11mm,5mm,TP
C130	2401-000240	C-AL	100uF,20%,10V,GP,5*11mm,5mm,TP
C131	2401-000240	C-AL	100uF,20%,10V,GP,5*11mm,5mm,TP
C141	2401-000240	C-AL	100uF,20%,10V,GP,5*11mm,5mm,TP
C143	2401-000240	C-AL	100uF,20%,10V,GP,5*11mm,5mm,TP
C151	2401-000240	C-AL	100uF,20%,10V,GP,5*11mm,5mm,TP
C152	2401-000240	C-AL	100uF,20%,10V,GP,5*11mm,5mm,TP
C355	2401-000240	C-AL	100uF,20%,10V,GP,5*11mm,5mm,TP
C514	2401-000240	C-AL	100uF,20%,10V,GP,5*11mm,5mm,TP
C525	2401-000240	C-AL	100uF,20%,10V,GP,5*11mm,5mm,TP
C9	2401-000240	C-AL	100uF,20%,10V,GP,5*11mm,5mm,TP
C121	2401-000419	C-AL	100uF,20%,16V,GP,5*11.5MM,TP
C202	2401-000419	C-AL	100uF,20%,16V,GP,5*11.5MM,TP
C210	2401-000419	C-AL	100uF,20%,16V,GP,5*11.5MM,TP
C323	2401-000419	C-AL	100uF,20%,16V,GP,5*11.5MM,TP
C324	2401-000419	C-AL	100uF,20%,16V,GP,5*11.5MM,TP
C601	2401-000419	C-AL	100uF,20%,16V,GP,5*11.5MM,TP
C604	2401-000419	C-AL	100uF,20%,16V,GP,5*11.5MM,TP
C529	2401-000795	C-AL	220uF,20%,16V,GP,8*11.5,5MM,TP
C3	2401-000830	C-AL	220uF,20%,25V,GP,8*11.5,5MM,TP
C531	2401-000907	C-AL	22uF,20%,16V,GP,5*11.5MM,TP
C628	2401-001022	C-AL	3.3uF,20%,50V,SME,5*11.5MM,TP
C1	2401-001511	C-AL	47uF,20%,16V,GP,6*7,5MM,TP
C204	2401-001511	C-AL	47uF,20%,16V,GP,6*7,5MM,TP
C251	2401-001511	C-AL	47uF,20%,16V,GP,6*7,5MM,TP
C343	2401-001511	C-AL	47uF,20%,16V,GP,6*7,5MM,TP
C623	2401-001511	C-AL	47uF,20%,16V,GP,6*7,5MM,TP
C624	2401-001511	C-AL	47uF,20%,16V,GP,6*7,5MM,TP
C627	2401-001511	C-AL	47uF,20%,16V,GP,6*7,5MM,TP
C630	2401-001511	C-AL	47uF,20%,16V,GP,6*7,5MM,TP
C640	2401-001511	C-AL	47uF,20%,16V,GP,6*7,5MM,TP
C704	2401-001511	C-AL	47uF,20%,16V,GP,6*7,5MM,TP
C4	2401-001883	C-AL	1000uF,20%,25V,GP,13x21mm,5mm
C619	2401-001883	C-AL	1000uF,20%,25V,GP,13x21mm,5mm
C618	2401-001893	C-AL	100uF,20%,16V,GP,6*7,5MM,TP
C637	2401-001893	C-AL	100uF,20%,16V,GP,6*7,5MM,TP
C641	2401-001893	C-AL	100uF,20%,16V,GP,6*7,5MM,TP
C106	2401-001912	C-AL	1uF,20%,50V,GP,5*11.5mm,TP
C336	2401-001912	C-AL	1uF,20%,50V,GP,5*11.5mm,TP
C337	2401-001912	C-AL	1uF,20%,50V,GP,5*11.5mm,TP
C518	2401-001912	C-AL	1uF,20%,50V,GP,5*11.5mm,TP
C528	2401-001912	C-AL	1uF,20%,50V,GP,5*11.5mm,TP
C551	2401-001912	C-AL	1uF,20%,50V,GP,5*11.5mm,TP
C552	2401-001912	C-AL	1uF,20%,50V,GP,5*11.5mm,TP
C602	2401-001912	C-AL	1uF,20%,50V,GP,5*11.5mm,TP
C603	2401-001912	C-AL	1uF,20%,50V,GP,5*11.5mm,TP
C608	2401-001912	C-AL	1uF,20%,50V,GP,5*11.5mm,TP
C610	2401-001912	C-AL	1uF,20%,50V,GP,5*11.5mm,TP
C651	2401-001912	C-AL	1uF,20%,50V,GP,5*11.5mm,TP
C652	2401-001912	C-AL	1uF,20%,50V,GP,5*11.5mm,TP
C638	2401-001923	C-AL	2200uF,20%,16V,GP,13*16MM,5MM
C643	2401-001923	C-AL	2200uF,20%,16V,GP,13*16MM,5MM
C615	2401-001925	C-AL	2200uF,20%,25V,GP,BK
C167	2401-001942	C-AL	3300uF,20%,35V,GP,18x37mm,7.5mm
C127	2401-001954	C-AL	4.7uF,20%,50V,GP,5*11.5MM,TP
C132	2401-001954	C-AL	4.7uF,20%,50V,GP,5*11.5MM,TP
C135	2401-001954	C-AL	4.7uF,20%,50V,GP,5*11.5MM,TP
C137	2401-001954	C-AL	4.7uF,20%,50V,GP,5*11.5MM,TP
C139	2401-001954	C-AL	4.7uF,20%,50V,GP,5*11.5MM,TP
C140	2401-001954	C-AL	4.7uF,20%,50V,GP,5*11.5MM,TP
C331	2401-001954	C-AL	4.7uF,20%,50V,GP,5*11.5MM,TP
C625	2401-001954	C-AL	4.7uF,20%,50V,GP,5*11.5MM,TP
C631	2401-001954	C-AL	4.7uF,20%,50V,GP,5*11.5MM,TP
C145	2401-001968	C-AL	470nF,20%,50V,GP,5*11.5mm,TP
C148	2401-001968	C-AL	470nF,20%,50V,GP,5*11.5mm,TP
C344	2401-001968	C-AL	470nF,20%,50V,GP,5*11.5mm,TP
C609	2401-002180	C-AL	2.2uF,20%,50V,GP,5*11.5mm,TP
C611	2401-002180	C-AL	2.2uF,20%,50V,GP,5*11.5mm,TP
C616	2401-003116	C-AL	4700uF,20%,35V,-18*35,5MM
TC301	2502-000127	C-CERAMIC.TRIMMER	20-4.6pF,+50-0%,100V
TC302	2502-000127	C-CERAMIC.TRIMMER	20-4.6pF,+50-0%,100V
L201	2701-000111	INDUCTOR-AXIAL	100uH,10%,2.5x3.4,LAL,02TB101K
L251	2701-000111	INDUCTOR-AXIAL	100uH,10%,2.5x3.4,LAL,02TB101K
L305	2701-000111	INDUCTOR-AXIAL	100uH,10%,2.5x3.4,LAL,02TB101K
L306	2701-000111	INDUCTOR-AXIAL	100uH,10%,2.5x3.4,LAL,02TB101K
L307	2701-000111	INDUCTOR-AXIAL	100uH,10%,2.5x3.4,LAL,02TB101K
L308	2701-000111	INDUCTOR-AXIAL	100uH,10%,2.5x3.4,LAL,02TB101K
L603	2701-000111	INDUCTOR-AXIAL	1

33uH,10% 2.8x7mm,BAL03ST330K  
33uH,10% 2.8x7mm,BAL03ST330K  
33uH,10% 2.8x7mm,BAL03ST330K  
7.2MHz,50ppm,28-AAM,12pF,30ohm  
32.768KHz,20ppm,28-AAY,12.5pF,  
4MHz,0.5%,TP,10.0x5.0x7.5mm  
456F15KHZ,+38xZ,7.0°3'5.9  
10.7M3G/BP,10.7MHz,-25KHz,180  
10.7MG16-A/BP,10.7MHz,+30KHz30  
AB,3.2x2.5x1.3mm,...

0001-00M50-00 RCD-M50/55

[illegible]

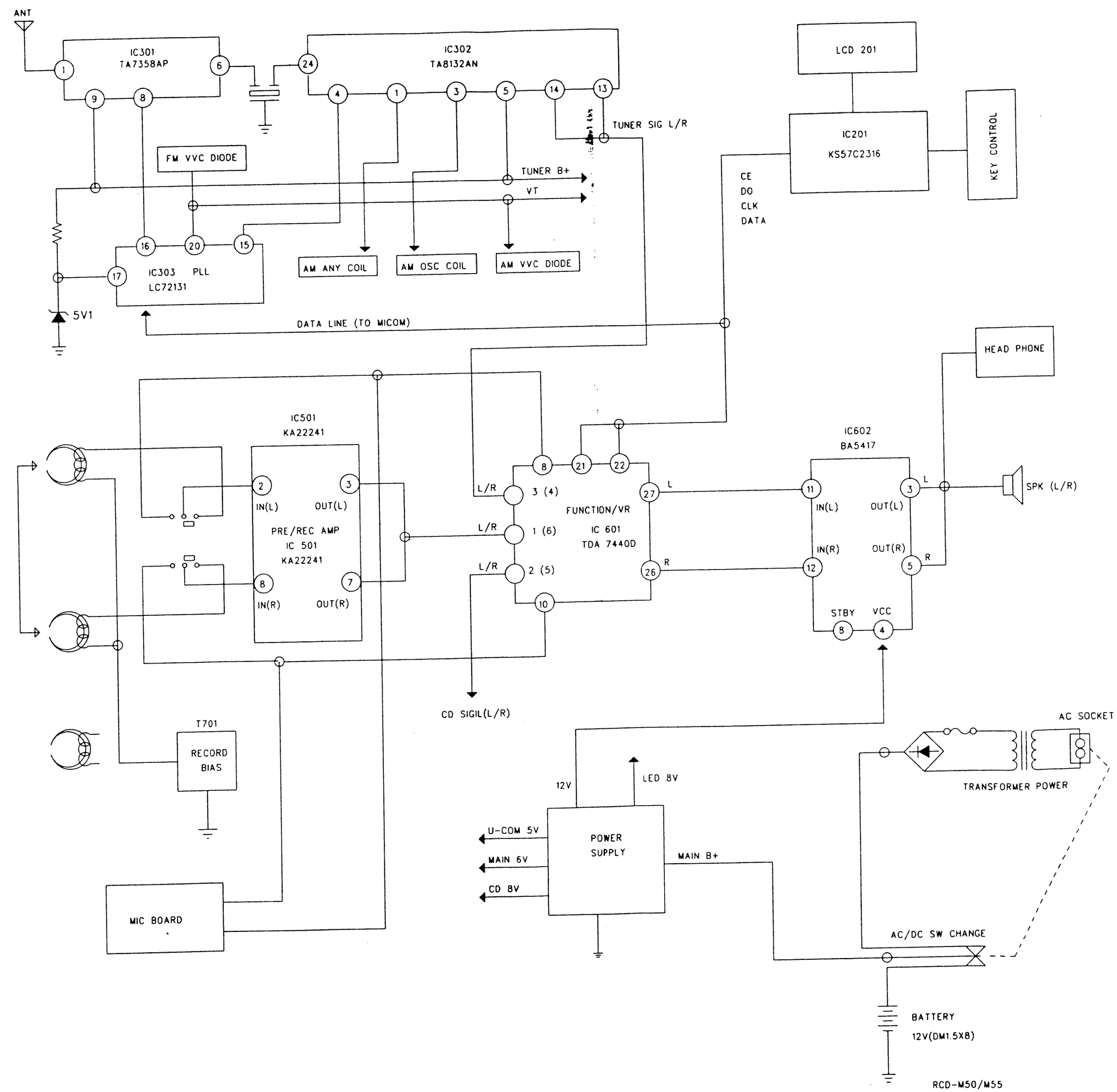
## 0001-00M50-02 RCDM50/55

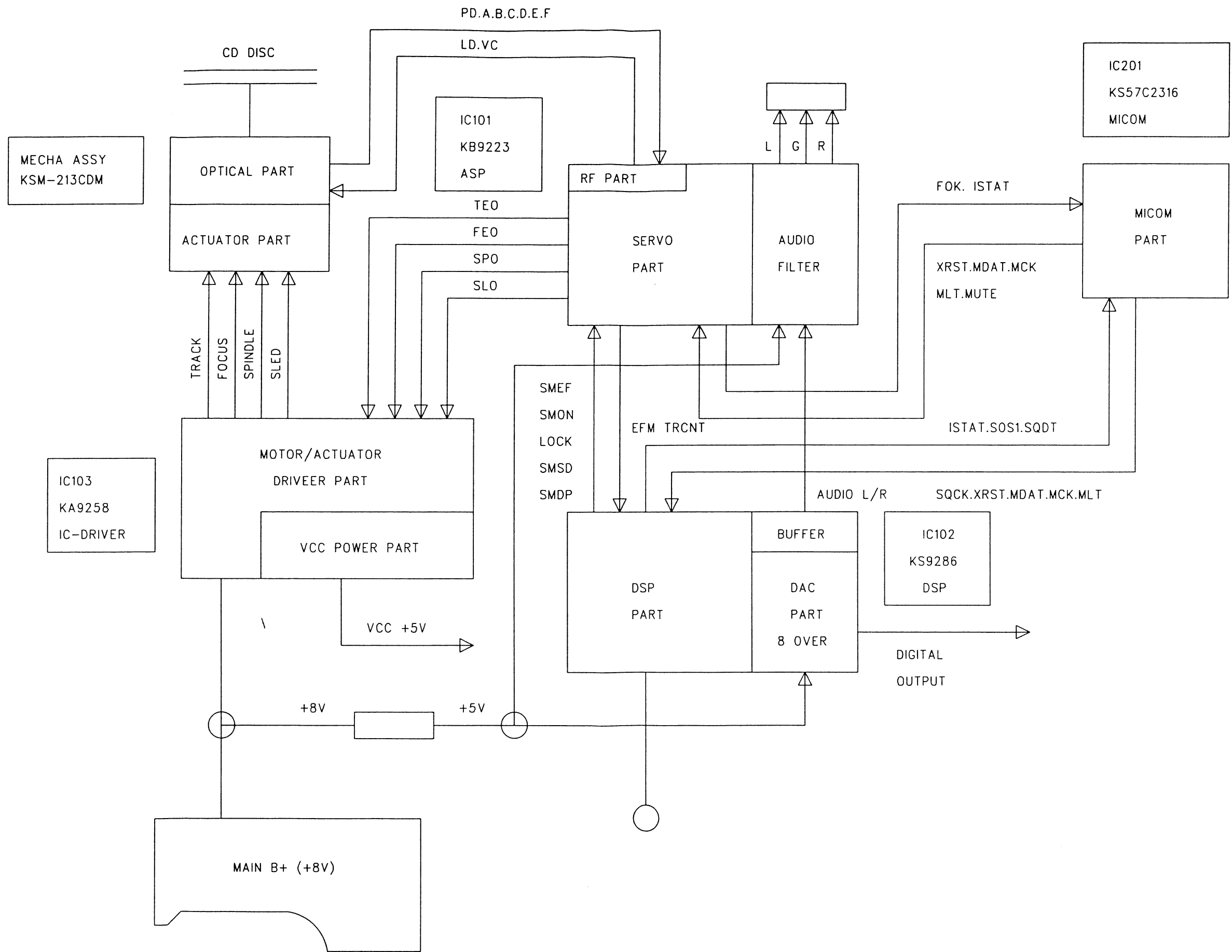
[illegible]

RCD-M50/55 MAIN.-  
RCD-M50/55 MAIN.-  
RCD-M50/55 MAIN.-  
RCD-M50/55 MAIN.-  
RCD-M50/55MAIN.-  
0118-03102-00.4.5W.40HM/BLK-C  
0115-60M30-WJ.  
D51SG6 RCD390/RCDM3G35  
0115-10M35-0F.TN-59VR-117.1AR

## 5. Block Diagram

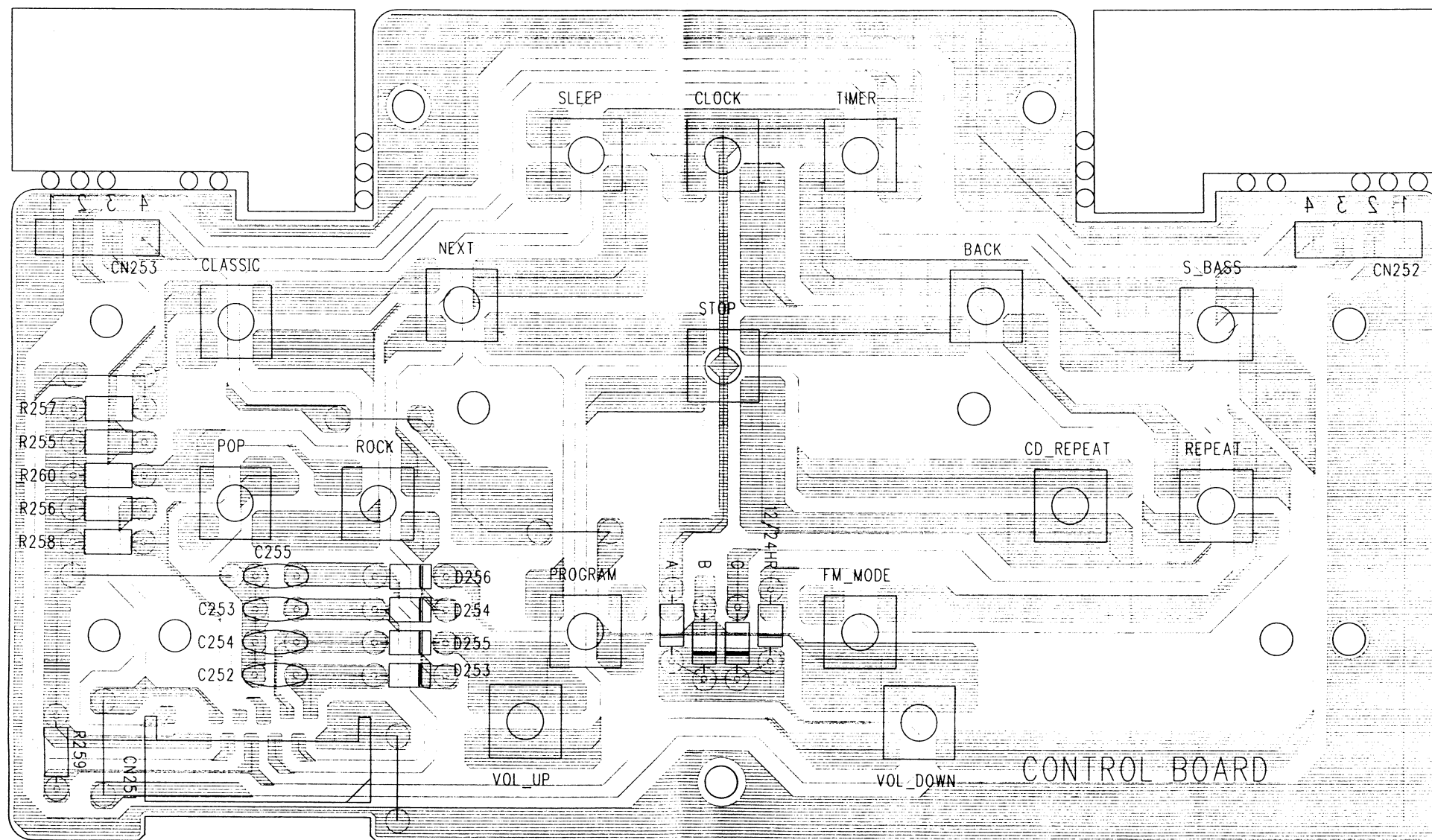
### 5-1 Main

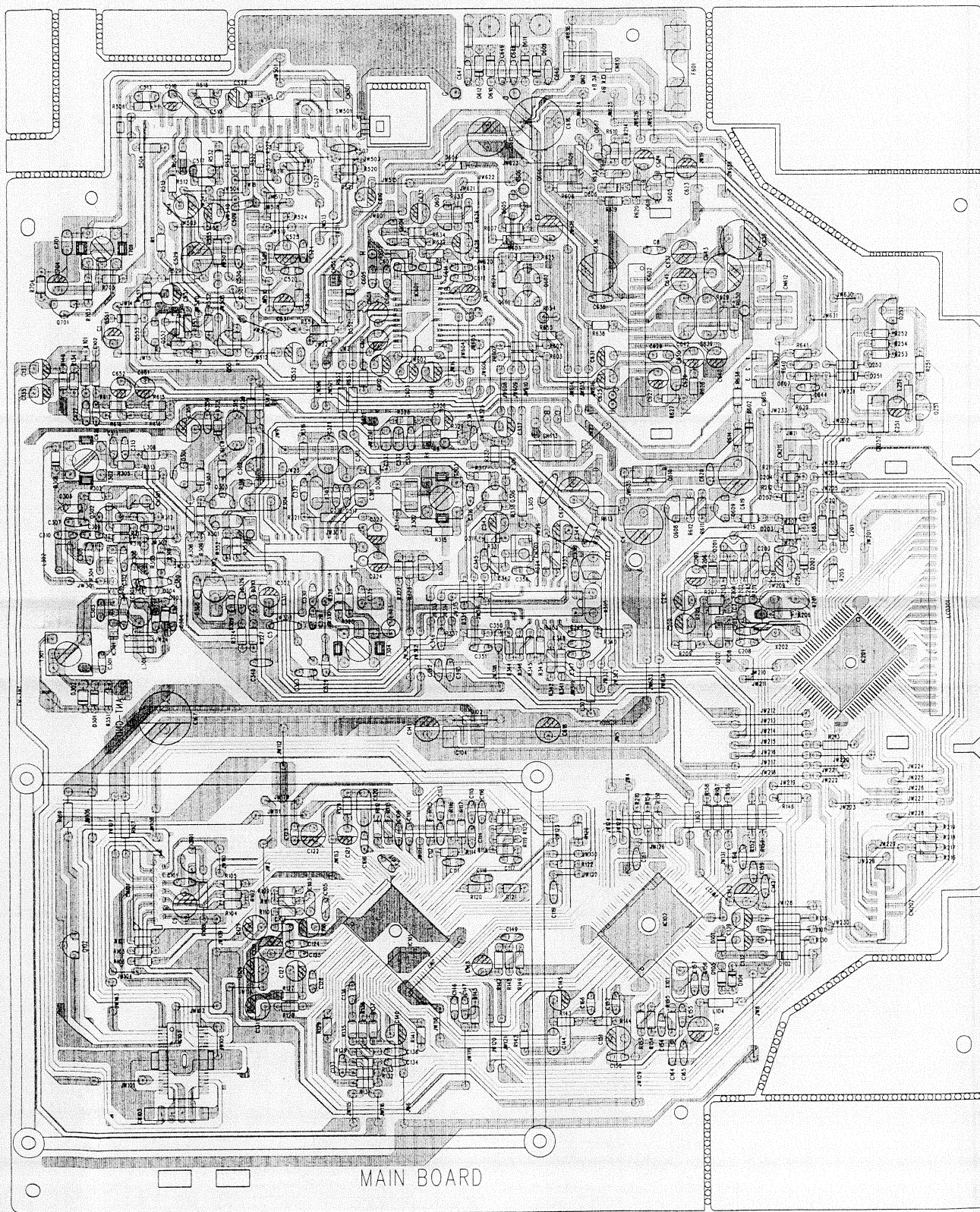




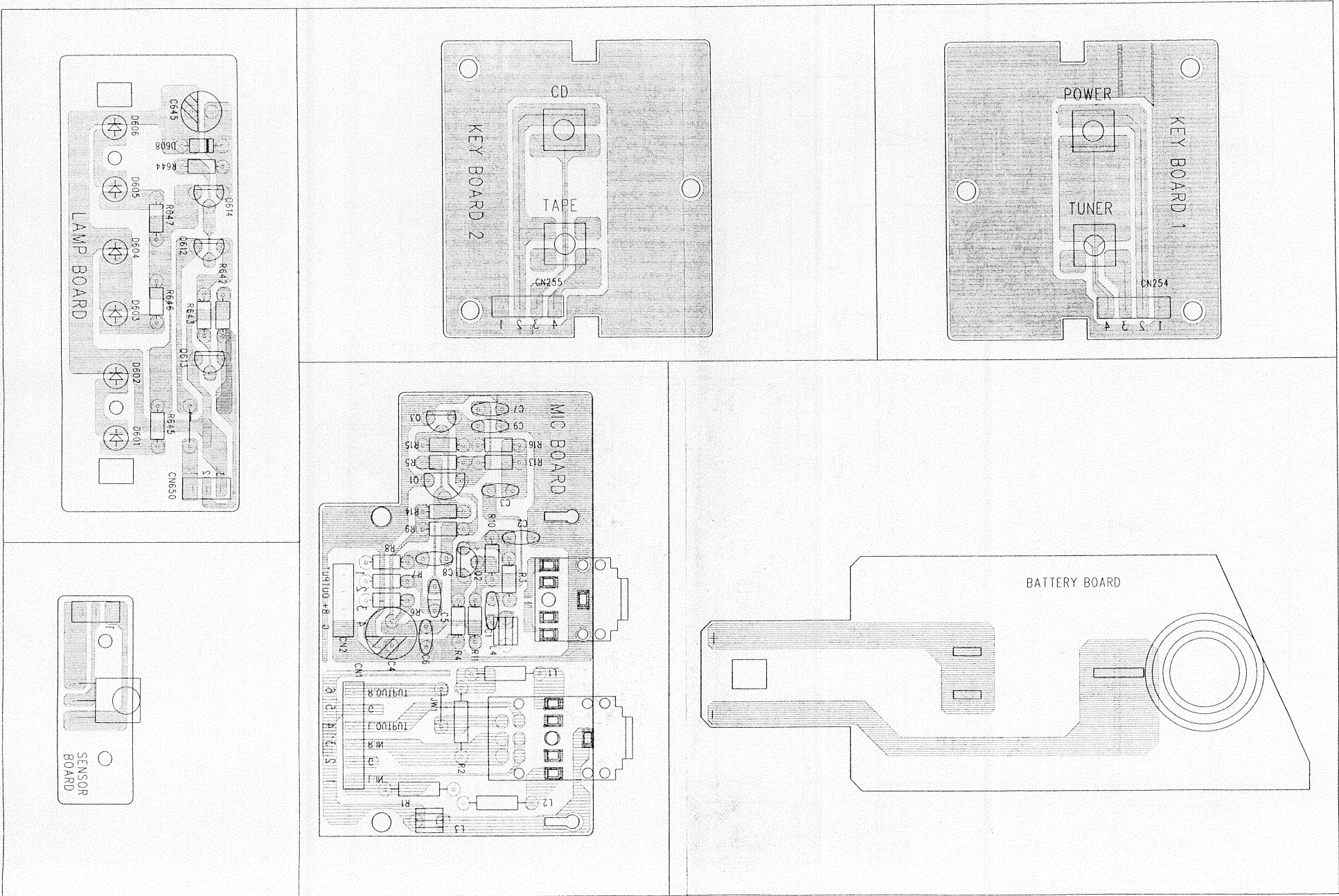
## 6. Printed Circuit Board Diagram

### 6-1. CONTROL PCB

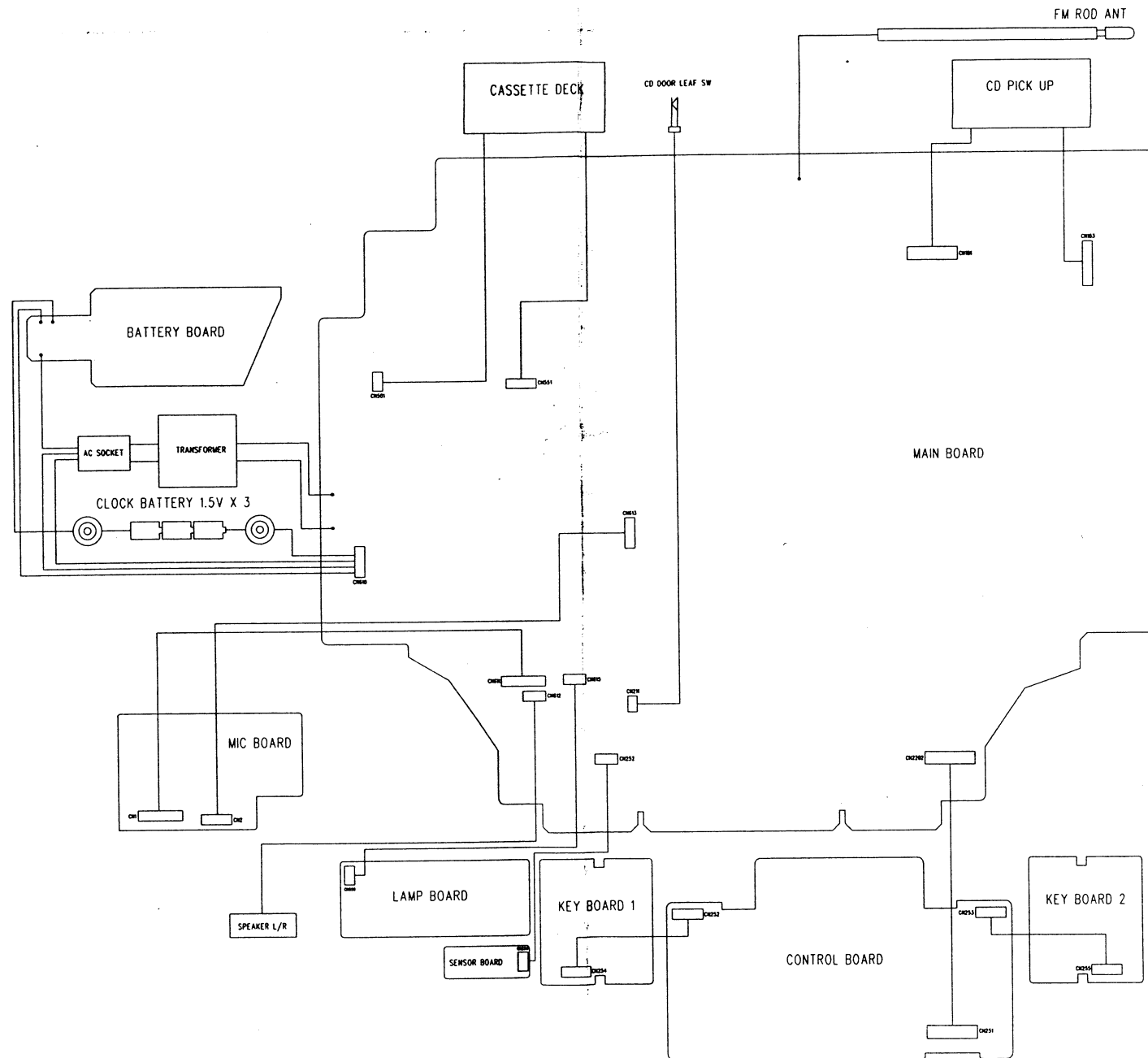




6-3. SUB PCB

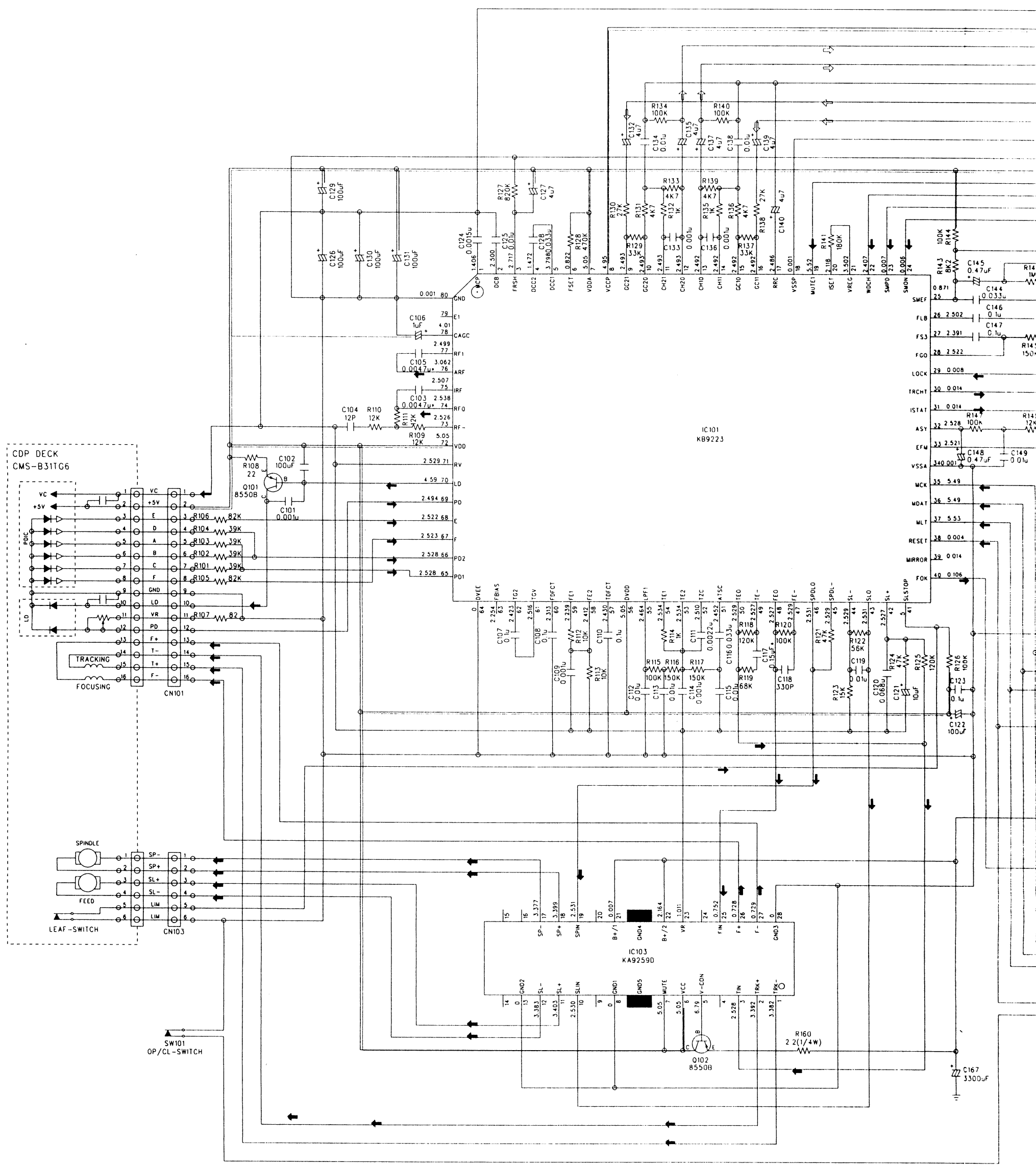


## 7. Wiring Diagram



# 8. Schematic Diagram

## 8-1 CD Part





8-2 MAIN Part

